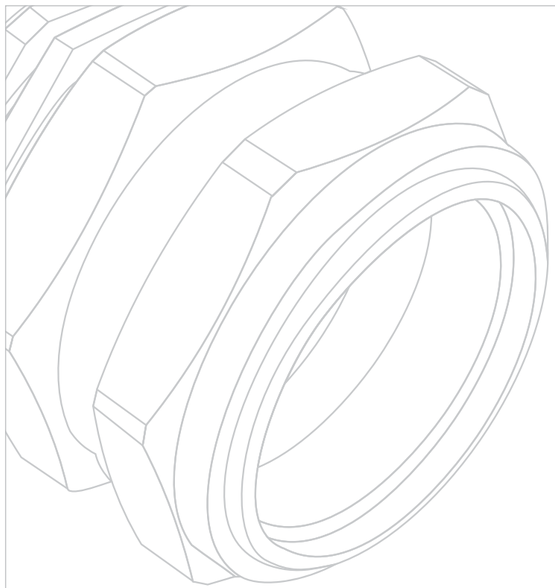


CABTEK
Electrical Accessories

Make Connection
with Perfection

AKSHAR
BRASS INDUSTRIES

Plot No. 46, 47 & 50, 51, Survey No. 246, 245 & 238,
at Lakhabaval, Naghedi Industrial Area,
Jamnagar-361006 Gujarat (INDIA)
Phone : +91-288-2730 587 • Fax : +91-288-2730 588
E-mail : info@aksharbrassind.com • www.aksharbrassind.com

OUR STAND POINT

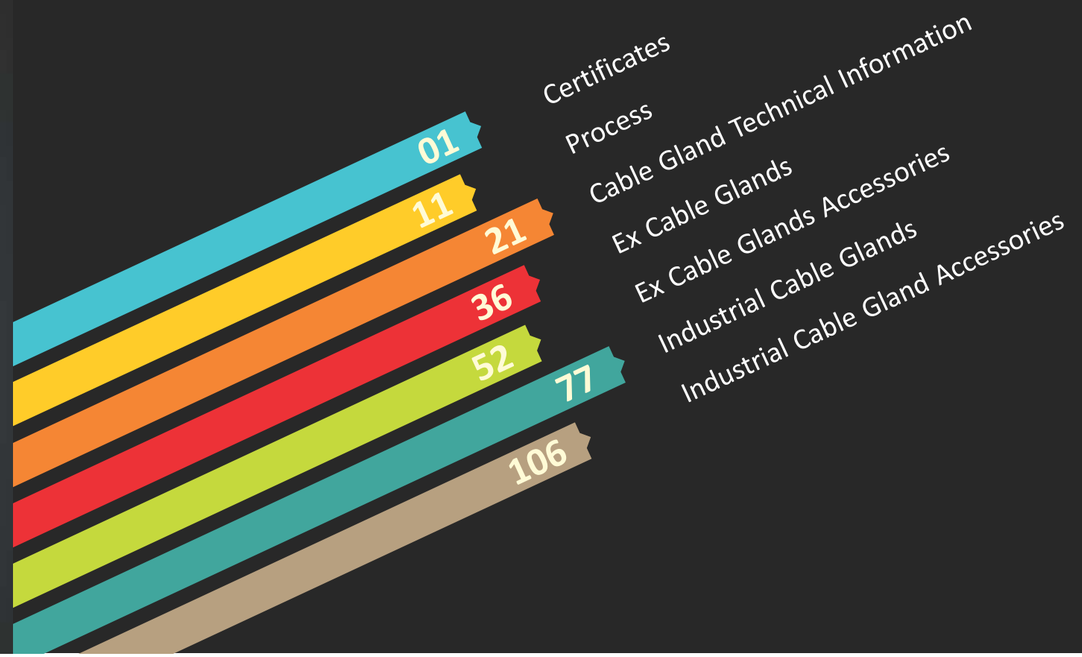
Akshar Brass Industries stands out amongst the distinctive and renowned manufactures of world class electrical accessories and brass components. Established in the year 1996 at Jamnagar with its rich and varied heritage of experience, knowledge, uncompromised quality standard with an unequalled niche of promptness in service and performance, Akshar Brass Industries has achieved a remarkable stride in the field of manufacturing of Cable Glands, which covers a wide spectrum of armored and unarmored cables, and thus providing total solution of cable termination to hazardous and non-hazardous areas of electrical installation and manufacturing of various brass components and products.

An ISO 9001-2008 certified export oriented unit, a unique in its spare of entity spread over an area of over 20000 Sq. ft. at the famous Brass City with ultra modern machineries, human resources of unparalleled skill energy and enthusiasm, and entrepreneurship of its highest order, Akshar Brass Industries is undisputedly renowned by its state-of-the-art technology and uncompromising quality consciousness with state of the art CAD installation and in-house laboratory facility as per EN 50262 standard for the manufacture of its wide range of products which are first-rate in quality standard.

Akshar Brass Industries has the most extensive brass products range in the country. Our unfailingly rigorous quality consciousness virtually gained us the brand name CABTEK which made us exceptional amongst our competitors and brought to us with in the gone off two decades many valuable customers from many countries.

CABTEK overall excellence in product, performance and delivery have won us, besides customers, a high perception of image and goodwill. Our endeavor is to satisfy our customers to the greater extent by supplying products of first rate in quality at a competitive price, on time delivery and reliable service.

INDEX




CABTEK
electrical accessories
AKSHAR
BRASS INDUSTRIES

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
वाणिज्य एवं उद्योग मंत्रालय
MINISTRY OF COMMERCE & INDUSTRY
विदेश व्यापार महानिदेशालय
DIRECTORATE GENERAL OF FOREIGN TRADE

मान्यता प्रमाण पत्र
Certificate of Recognition

एक सितारा निर्यात सदन
ONE STAR EXPORT HOUSE

240116000060

मैसर्स AKSHAR BRASS INDUSTRIES
PLOT NO.4027, GIDC, PHASE-III, DARED, JAMNAGAR --361004
(आई ई सी 2411010303 और आयकर पैन AATFA9448D)

को विदेश व्यापार नीति, 2015–2020 के प्रावधानों के अनुसार एक सितारा निर्यात सदन का स्तर प्रदान किया जाता है। यह प्रमाण पत्र, प्रक्रिया पुस्तक (2015 –2020) के पैरा 3.20 (बी) में दी गयी शर्तो के निहित FIVE वर्षो की अवधि के लिए दिनांक 26.03.2016 से 25.03.2021 तक वैध होगा।

M/s AKSHAR BRASS INDUSTRIES
PLOT NO.4027, GIDC, PHASE-III, DARED, JAMNAGAR --361004
(IEC 2411010303 and Income Tax PAN AATFA9448D)

are hereby accorded the status of One Star Export House in accordance with the provisions of the Foreign Trade Policy, 2015-2020. This Certificate is valid for a period of FIVE years effective from 26.03.2016 to 25.03.2021 subject to the conditions prescribed in Para 3.20(b) of the Hand Book of Procedures (2015-2020).

सं./No. A/ 5315
तारीख/Date : 24.05.2016
स्थान/Place : Rajkot
SEAL

SUVIDH SHAH
DY. D.G.F.T.
SUVIDH P. SHAH
अपर/संयुक्त/उप महानिदेशक,
विदेश व्यापार/विकास आयुक्त (एस.ई.झेड.)
Additional/ Joint/ Deputy
Director General of Foreign Trade/
Development Commissioner (SEZ)

24/21/058/80075/AM16/ 26.03.2016
(फाइल सं./File No.) तारीख/Date :

TECHNICKÁ INŠPEKCIA, a.s.
SLOVENSKÁ REPUBLIKA

[1] EU-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective System Intended for use in potentially explosive atmospheres Directive 2014/34/EU

[3] EU-Type Examination Certificate Number: **TI16ATEX 671-2 X**

[4] Equipment or Protective System: **CABLE GLAND, Type: A2FRF, A2FRM, A2FFC**

[5] Manufacturer: **AKSHAR BRASS INDUSTRIES**

[6] Address: 4027, GIDC, Phase-III, Jamnagar-361 004, Gujarat, India

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] Technická inšpekcia, a.s., Notified Body Number 1354 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report No. 671/5/2016-2.

[9] Compliance with the Essential Health and safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014

[10] If the sign "X" is placed after the certificate number, it indicate that the equipment or protective systems is subject to special condition for safe use specified in the schedule to this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

[12] The marking of the equipment or protective system shall include the following:

II 2 GD Ex db IIC Gb - 60°C ≤ Tamb ≤ 125°C
Ex tb IIIC Db IP66 - 60°C ≤ Tamb ≤ 125°C

Technická inšpekcia, a.s.
Trnavská cesta 66
821 01 Bratislava, Slovakia
e-mail: tiar@tiar.sk
web: www.tiar.sk
Tel.: +421 2 49208 100

NB 1354

Bratislava, May 10th, 2016

Ing. Dušan Konický
General Director

This certificate may only be reproduced in its entirety and change, schedule included.
Page 1 of 4 of Certificate No. TI16ATEX 671-2 X

301053
CSTA3-128

TECHNICKÁ INŠPEKCIA, a.s.

SLOVENSKÁ REPUBLIKA

CEOC INTERNATIONAL

[1] EU-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective System Intended for use in potentially explosive atmospheres Directive 2014/34/EU

[3] EU-Type Examination Certificate Number: **TI16ATEX 671-3 X**

[4] Equipment or Protective System: **CABLE GLAND**
Type: E1FWFC, E1FXFC, E1FWRM, E1FXRM, E1FWRF, E1FXRF

[5] Manufacturer: **AKSHAR BRASS INDUSTRIES**

[6] Address: 4027, GIDC, Phase-III, Jamnagar-361 004, Gujarat, India

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] Technická inšpekcia, a.s., Notified Body Number 1354 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report No. 671/5/2016-3.

[9] Compliance with the Essential Health and safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014

[10] If the sign "X" is placed after the certificate number, it indicate that the equipment or protective systems is subject to special condition for safe use specified in the schedule to this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

[12] The marking of the equipment or protective system shall include the following:

II 2 GD Ex db IIC Gb - 60°C ≤ Tamb ≤ 125°C
Ex tb IIIC Db IP66 - 60°C ≤ Tamb ≤ 125°C

Technická inšpekcia, a.s.
Trnavská cesta 56
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web: www.tisr.sk
Tel.: +421 2 49208 100

Bratislava, May 10th, 2016

Ing. Dušan Konický
General Director

301054

CSTA3-128

TECHNICKÁ INŠPEKCIA, a.s.

SLOVENSKÁ REPUBLIKA

CEOC INTERNATIONAL

[1] PRODUCTION QUALITY ASSURANCE NOTIFICATION

[2] Equipment or Protective System or Components Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3] **Notification Number:** **TI16ATEX 671-4**

[4] **List of products covered by this notification:**

No. of certificate	Equipment or protective systems
TI16ATEX 671-1 X	CABLE GLAND, Type: SS2KGP II 2 GD Ex db IIC Gb - 60°C ≤ Tamb ≤ 125°C Ex tb IIIC Db IP66 - 60°C ≤ Tamb ≤ 125°C
TI16ATEX 671-2 X	CABLE GLAND, Type: A2FRF, A2FRM, A2FFC II 2 GD Ex db IIC Gb - 60°C ≤ Tamb ≤ 125°C Ex tb IIIC Db IP66 - 60°C ≤ Tamb ≤ 125°C
TI16ATEX 671-3 X	CABLE GLAND, Type: E1FWFC, E1FXFC, E1FWRM, E1FXRM, E1FWRF, E1FXRF II 2 GD Ex db IIC Gb - 60°C ≤ Tamb ≤ 125°C Ex tb IIIC Db IP66 - 60°C ≤ Tamb ≤ 125°C

[5] **Applicant:** **See Manufacturer**

[6] **Manufacturer:** **AKSHAR BRASS INDUSTRIES**
4027, GIDC, Phase-III, Jamnagar-361 004, Gujarat, India

[7] Technická inšpekcia, a.s., Notified Body Number 1354 for Annex IV in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, notifies to the applicant that the actual manufacturer has a production quality system which complies with Annex IV, **MODULE D: Conformity to Type based on Quality Assurance of the Production Process**, of the Directive.
This quality system in compliance with Annex IV of the Directive also meets the requirements of Annex VII, MODULE E: Conformity to Type based on Product Quality Assurance, of the Directive.

[8] This notification is based on audit report No. 671/5/2016-4 issued May 10th, 2016
This notification can be withdrawn if the manufacturer no longer satisfies the requirements of Annex IV.
Results of periodical re-assessment of the quality system are a part of this notification.

[9] This notification is valid until May 10th, 2017 and can be withdrawn if the manufacturer does not satisfy the production quality assurance surveillance.

[10] According to Article 18 (3) of Directive 2014/34/EU the CE mark shall be followed by the identification Number 1354 identifying the Notified Body involved in the production control stage.

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e-mail: tisr@tisr.sk
web: www.tisr.sk
Tel.: +421 2 49208 100

Bratislava, May 10th, 2016

Ing. Dušan Konický
General Director

301051

PNQANA2-419

TECHNICKÁ INŠPEKCIA, a.s.

SLOVENSKÁ REPUBLIKA

CEOC INTERNATIONAL

[1] EU-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective System Intended for use in potentially explosive atmospheres Directive 2014/34/EU

[3] EU-Type Examination Certificate Number: **TI16ATEX 671-1 X**

[4] Equipment or Protective System: **CABLE GLAND, Type: SS2KGP**

[5] Manufacturer: **AKSHAR BRASS INDUSTRIES**

[6] Address: 4027, GIDC, Phase-III, Jamnagar-361 004, Gujarat, India

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] Technická inšpekcia, a.s., Notified Body Number 1354 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report No. 671/5/2016-1.

[9] Compliance with the Essential Health and safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014

[10] If the sign "X" is placed after the certificate number, it indicate that the equipment or protective systems is subject to special condition for safe use specified in the schedule to this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

[12] The marking of the equipment or protective system shall include the following:

II 2 GD Ex db IIC Gb - 60°C ≤ Tamb ≤ 125°C
Ex tb IIIC Db IP66 - 60°C ≤ Tamb ≤ 125°C

Technická inšpekcia, a.s.
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821 01 Bratislava, Slovakia
e-mail: tisr@tisr.sk
web: www.tisr.sk
Tel.: +421 2 49208 100

Bratislava, May 10th, 2016

Ing. Dušan Konipky
General Director

301052

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx ITS 16.0041X Issue No: 0 Certificate history: Issue No. 0 (2016-09-29)

Status: **Current** Page 1 of 5

Date of Issue: **2016-09-29**

Applicant: **Akshar Brass Industries**
4027, GIDC, Phase-III, Jamnagar - 361 004, Gujarat (India)
India

Equipment: **Ex db / Ex eb and Ex tb**
Optional accessory:

Type of Protection: **Flameproof and Increased Safety**

Marking:
Ex db IIC Gb / Ex eb IIC Gb -60°C ≤ Ta ≤ + 125°C
Ex tb IIIC Db -60°C ≤ Ta ≤ + 125°C IP67

Approved for issue on behalf of the IECEx Certification Body: V K Varma

Position: Certification Officer

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:
Intertek Testing & Certification Limited
ITS House, Cleeve Road,
Leatherhead,
Surrey, KT22 7SB
United Kingdom

EU-Type Examination Certificate

1. **EU-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**
3. **EU-Type Examination Certificate Number: ITS16ATEX100935X**
4. **Product:** **Cable Glands and Blanking Elements**
5. **Manufacturer:** **Akshar Brass Industries**
6. **Address:** **4027, GIDC, Phase-III, Jamnagar - 361 004, Gujarat (India)**
7. This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
8. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

   The examination and test results are recorded in confidential Intertek Report Ref No. CE-JOB-DEL-14-000650-003 to 007 and Intertek UK Certification report No. G101688827 dated 9th August 2016.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11 2013, EN 60079-1:2014, EN 60079-7:2015 and EN 60079-31:2014 except in respect of those requirements referred to at Item 18 of the Schedule.
10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Safe Use specified in the Schedule to this certificate.
11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:

    II 2 GD
    Ex db IIC Gb / Ex eb IIC Gb -60°C≤Ta≤+125°C
    Ex tb IIIC Db -60°C≤Ta≤+125°C IP67

Vijay K. Varma
Vijay K Varma
Certification Officer
12th September 2016

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977
www.intertek.com
Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

Page 1 of 5

This certificate may only be reproduced in its entirety and without any change, schedule included and is subject to Intertek Testing and Certification's Conditions for Granting Certification

BUREAU VERITAS Certification

AKSHAR BRASS INDUSTRIES

PLOT NO 4027, PHASE III, DARED GIDC,
JAMNAGAR -361004, GUJARAT, INDIA.

Bureau Veritas Certification certify that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standard detailed below

Standard

ISO 9001:2008

Scope of certification

MANUFACTURE AND SALES OF FERROUS AND NON-FERROUS TURNED COMPONENTS

Certification cycle start date: **22 November 2015**
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **14 September 2018**
Original certification date: **22 November 2012**
Certificate No. **IND15.5506N/Q** Version : 1 Revision date: **30 October 2015**

Certification Authority
Ramesh KOREGAVE
General Manager, CERTIFICATION
South Asia Region

NABCB
QM 003

Local office: *"Marwah Centre" 6th Floor, Krishanlal Marwah Marg, Opp. Ansa Industrial Estate, Off Saki Vihar Road, Andheri (East), Mumbai – 400 072, India.*

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization. To check this certificate validity please call: +91 22 6695 6300.

QUALITY ASSURANCE NOTIFICATION

1. **QUALITY ASSURANCE NOTIFICATION**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**
3. **Manufacturers Notification Number: ITS16ATEXQ00970**
4. **Explosion Protection concept(s) covered by this Notification:** See Schedule 1
5. **Manufacturer: AKSHAR BRASS INDUSTRIES**
6. **Address: 4027GIDC, Phase-III, Jamnagar – 361 004 Gujarat, INDIA**
7. Intertek Testing and Certification Limited, Notified Body No. 0359 for Annexes IV and VII in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, confirms that the manufacturer has a quality system which complies with Annex IV of the Directive.
8. Full details of the Audit are held on file Ref CE-JOB-DEL-14-000650-001 (UK Project No G101888827).
9. This Notification may be withdrawn if the manufacturer no longer satisfies the requirements of Annex IV. Periodic Inspection form part of this Notification.
10. This Notification is valid until **15 April 2019** and can be withdrawn if the manufacturer does not satisfy the quality assurance re-assessment.
11. The CE marking shall be followed by the identification number 0359 identifying the Notified Body involved in the production control stage required by Article 16 of the Directive 2014/34/EU.
12. This Notification may only be reproduced in its entirety and without any change, Schedule included.

Vijay K. Varma

V K Varma
Certification Officer
16 May 2016

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977
www.intertek.com
Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

TECHNICKÁ INŠPEKCIA, a.s.

SLOVENSKÁ REPUBLIKA

[1] **PRODUCTION QUALITY ASSURANCE NOTIFICATION**

[2] Equipment or Protective System or Components Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3] **Notification Number:** **TI16ATEX 671-4**

[4] **List of products covered by this notification:**

No. of certificate	Equipment or protective systems
TI16ATEX 671-1 X	CABLE GLAND, Type: SS2KGP II 2 GD Ex db IIC Gb - 60°C ≤ Tamb ≤ 125°C Ex tb IIIC Db IP66 - 60°C ≤ Tamb ≤ 125°C
TI16ATEX 671-2 X	CABLE GLAND, Type: A2FRF, A2FRM, A2FFC II 2 GD Ex db IIC Gb - 60°C ≤ Tamb ≤ 125°C Ex tb IIIC Db IP66 - 60°C ≤ Tamb ≤ 125°C
TI16ATEX 671-3 X	CABLE GLAND, Type: E1FWFC, E1FXFC, E1FWRM, E1FXRM, E1FWRF, E1FXRF II 2 GD Ex db IIC Gb - 60°C ≤ Tamb ≤ 125°C Ex tb IIIC Db IP66 - 60°C ≤ Tamb ≤ 125°C

[5] **Applicant:** **See Manufacturer**

[6] **Manufacturer:** **AKSHAR BRASS INDUSTRIES**
4027, GIDC, Phase-III, Jamnagar-361 004, Gujarat, India

[7] Technická inšpekcia, a.s., Notified Body Number 1354 for Annex IV in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, notifies to the applicant that the actuel manufacturer has a production quality system which complies with Annex IV, **MODULE D: Conformity to Type based on Quality Assurance of the Production Process**, of the Directive.
This quality system in compliance with Annex IV of the Directive also meets the requirements of Annex VII, MODULE E: Conformity to Type based on Product Quality Assurance, of the Directive.

[8] This notification is based on audit report No. 671/5/2016-4 issued May 10th, 2016
This notification can be withdrawn if the manufacturer no longer satisfies the requirements of Annex IV.
Results of periodical re-assessment of the quality system are a part of this notification.

[9] This notification is valid until May 10th, 2017 and can be withdrawn if the manufacturer does not satisfy the production quality assurance surveillance.

[10] According to Article 16 (3) of Directive 2014/34/EU the CE mark shall be followed by the identification Number 1354 identifying the Notified Body involved in the production control stage.

Technická inšpekcia, a.s.
Trnavská cesta 56
821 01 Bratislava, Slovakia
e-mail: tiscr@tiscr.sk
web: www.tiscr.sk
Tel.: +421 2 49208 100

Bratislava, May 10th, 2016

Ing. Dušan Konický
General Director

301051 This notification may only be reproduced in this entirety and without any change.

PNQANA2-419

The Making

Induction furnace operated foundry size and experience allows for the highest levels of quality control and for faster, more efficient operations that live up to its namesake. We exceed your expectations with our superior quality metal castings and outstanding customer service.

Hi-tech Machining

Advance in manufacturing processes for producing high precision, quick turn-around rate and timely delivery make the best choice for all manufacturing needs.

Perfection

CABTEK overall excellence in product, performance and delivery have won us, besides customers, a high perception of image and goodwill. Our endeavor is to satisfy our customers to the greater extent by supplying products of first rate in quality at a competitive price, on time delivery and reliable service.

Quality Control

CABTEK offer superior & safe cable gland performance. Being the integrity of their mechanical design & the quality of materials used in their production. CABTEK cable gland ensure their seals to prolonged exposure and cable adequately retained by the armor clamp within the standard.

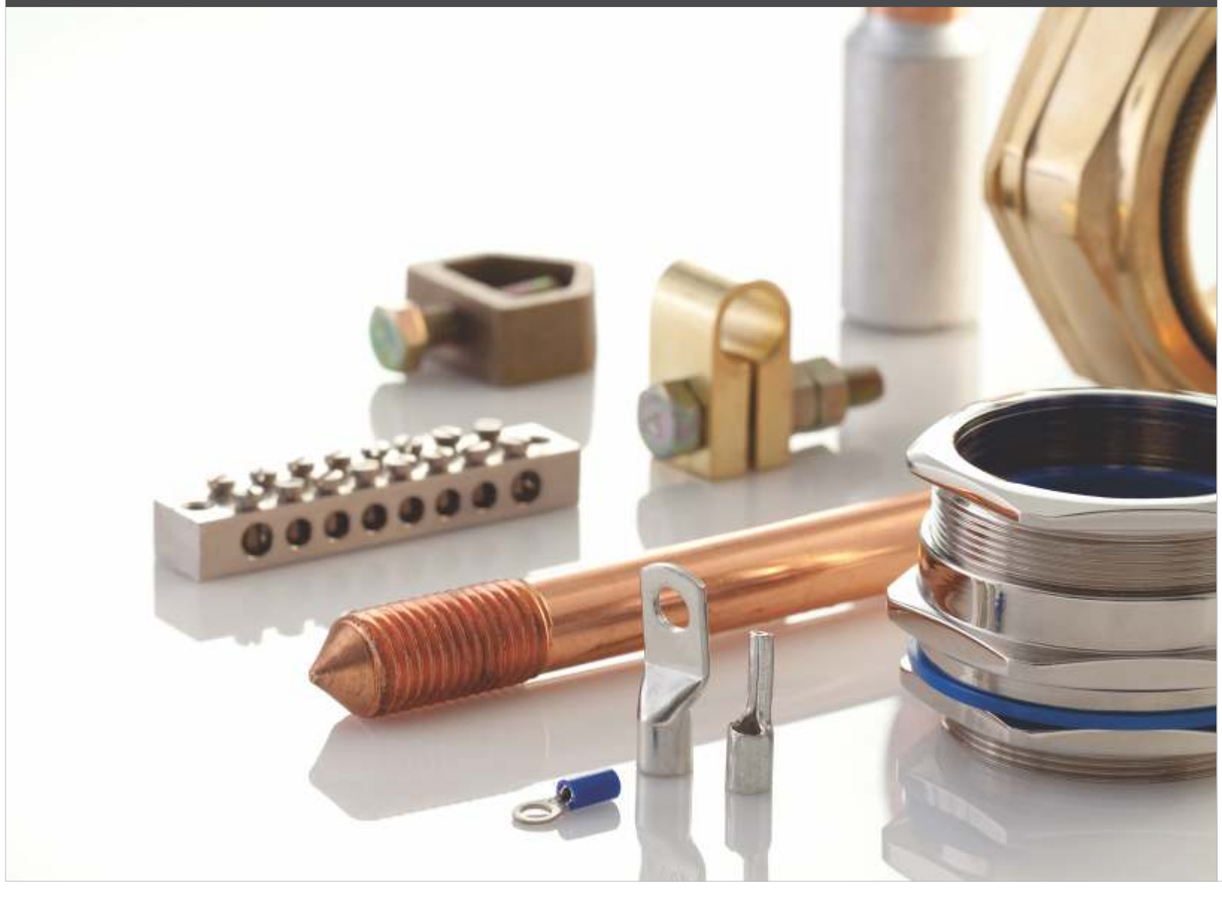
Packaging & Shipping

Our advance facility that enables us to deliver our range of products safely and in promised time to our clients.

Packed in strong corrugated box, with properly marked the destination, item code & number of individual cartoons. A wide range of option for packaging material like Corrugated Boxes, Wooden Cases, Pallet Packing etc...

Cable Gland

Technical Information



Introduction

Cable glands are mechanical cable entry devices and can be constructed from metallic or non-metallic materials. They are used throughout a number of industries in conjunction with cable and wiring used in electrical instrumentation and automation systems.

Cable glands are mechanical fittings that form part of the electrical installation material. The purpose of a cable gland is to seal the cable and retain it in the electrical equipment that it is attached to. It should maintain the ingress protection rating of the enclosures, keeping out dust and moisture but it should also prevent the cable from being pulled out of the equipment and from being twisted whilst connected to equipment. If it is intended for use with armoured cable, the cable gland also provides an earth continuity function.

Cable glands may be used on all types of electrical power, control, instrumentation, data and telecommunications cables. They are used as a sealing and termination device to ensure that the characteristics of the enclosure which the cable enters can be maintained adequately.

Cable Gland Standard

For industrial electrical installations the need for compliance with standards is vital in order to ensure such things as occupational health and safety in the workplace, security and safety of earthing systems, functional safety, longevity of performance and continuity of supply for plant and equipment. The same criteria which are applied to the plethora of electrical equipment should also be considered as applicable to cable glands, in order for systems to be installed and operated reliably.

During the formative years of the rapidly expanding power generation industry in all over world, the acute need for a common standard reference document that could address cable gland requirements was recognised, and from this GDCD 190 was created. Latterly in the 1970's BS 4121 was superseded by BS 6121 with the introduction of the metric system of measurement across Europe. Majority of cable gland designs around the BS 6121 standard. However in particular the area where some manufacturer don't comply with BS 6121 are the maximum bore dimensions (Table-I) through the cable gland, the wall thicknesses as a result of the bore size discrepancies, and the sealing ranges that differ considerably from the standard.

European standard for Cable Glands EN 50262 was published in September 1998. The new standard is very different from the previous British standards BS 6121 in some important respects. A new IEC standard for “Cable Glands for Electrical Installations”, IEC 62444, was published in 2010 and in time this will be adopted in several countries across the world, including Australia. This new standard could have a profound impact on users and manufacturers, especially those who discover for the first time that the products they have previously used have not been tested to any current standards. IEC 62444 is similar to EN 50262 in that it is also a performance based standard, allowing manufacturers to produce cable glands of varying degrees of robustness some of which may be more suited to light industrial applications such as factory automation, whilst others may be more applicable to medium and heavy duty industrial electrical installations, such as power generation and distribution.

Nomenclature

Table A: Cable Gland Primary Code for Unarmoured and Armoured Cables

CODE	Definition
A1	For unarmoured cable with an elastomeric or plastic outer sheath, with sealing function between the cable sheath and the sealing ring of the cable gland.
A2	As type A1, but with seal protection degree IP66 means 30 bar pressure.
B	No Seal
C	Single Outer Seal
E	Double (Inner & Outer) Seal
	suffix '1' = Normal suffix '2' = Lead Sheathed

Table B: Cable Gland Secondary Code for Armoured Cables

CODE	Designation Of Cable Armouring
W	Single Wire Armour
Y	Strip Armour Used
X	Braid
T	Pliable Wire Armour
Z	

Table C: Cable Gland Type Designations

CODE	Definition
A2	Cable Gland for unarmoured cable with Outer seal
BW	Cable Gland for SWA cable without seal Indoor use
CW	Single Seal Cable Gland for SWA cable Outdoor use
E1W	Double Seal Cable Gland for SWA cable both indoor and outdoor
CX	Single Seal Cable Gland for braided cable
E1X	Double Seal Cable Gland for braided cable

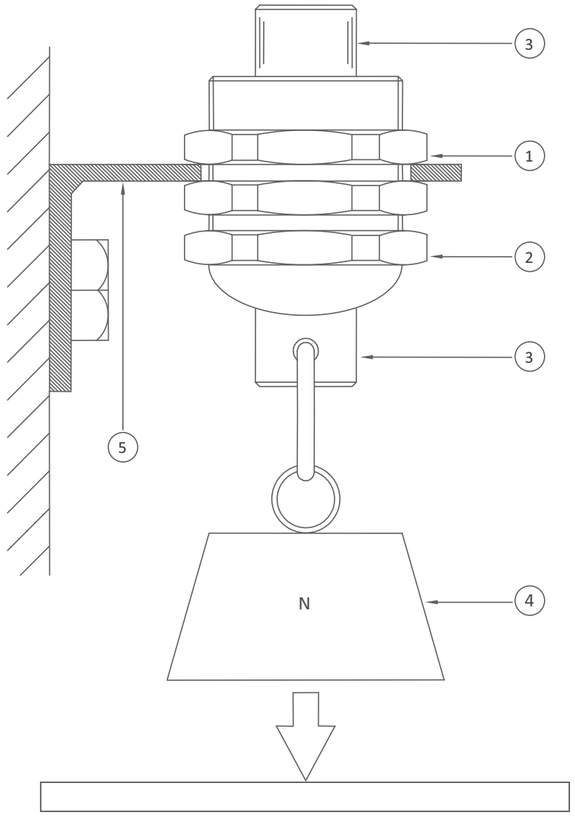
Cable Gland Construction Requirements

Table 1 : Bore Size Referenced in BS 6121 part 1 : 1989

Cable Gland Size	16	20S	20	25	32	40	50S	50	63S	63	75S	75
Entry Thread Size	M20 or M16	M20	M20	M25	M32	M40	M50	M50	M63	M63	M75	M75
Bore Size	8.7	11.7	14.0	20.0	26.3	32.2	38.2	44.1	50.1	56.0	62.0	68.0
Permitted Tolerance	+0.3mm	+0.3mm	+0.3mm	+0.3mm	+0.5mm	+0.5mm	+0.5mm	+0.5mm	+0.5mm	+0.5mm	+0.5mm	+0.5mm
Maximum Bore Size	9.0	12.0	14.3	20.3	26.8	32.7	38.7	44.6	50.6	56.5	62.5	68.5

A. Cable Gland Retention

A circular test mandrel is loaded until the pull force is in accordance with the values given in Table 2 column "Cable retention". For test mandrels which are not circular in shape, i.e. where non-circular cables are being simulated, their cross-sectional area shall be determined, and the diameter of a circular cable of the same cross-sectional area shall be calculated. The test values shall be appropriate to the nearest circular test mandrel size. For cable glands with sealing systems comprising two or more seals with different sizes, the mandrel shall be stepped appropriately. The test values shall be appropriate to the largest test mandrel diameter. The test mandrel is marked when unloaded so that any displacement relative to the cable gland can be easily detected. The load is maintained for 5 min and at the end of this period the displacement shall not exceed 3mm when unloaded. The test is repeated using new samples and a test mandrel equivalent to the maximum value of the sealing range of the cable gland as declared by the manufacturer or supplier, with the test value of the relevant maximum cable diameter specified in Table 2.



Key
1 Lock Nut
2 Cable Gland
3 Mandrel
4 Load
5 Support

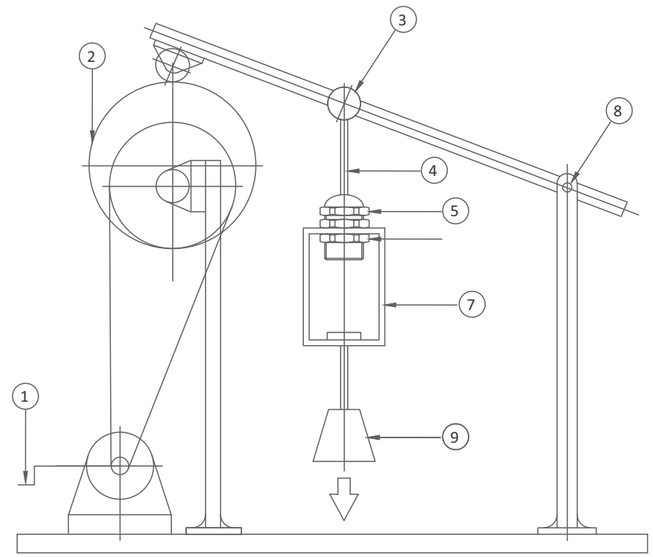
Figure 1- Cable Retention Test

Table 2 : Pull Forces For Cable Retention And Cable Anchorage

Cable Diameter mm	Cable Retention N	Cable Anchorage for Non-Armoured Cable		Cable Anchorage for Armoured Cable	
		Type A N	Type B N	Type C N	Type D N
Up to 4	5	-	-	-	-
> 4 to 8	10	30	75	75	640
> 8 to 11	15	42	120	120	880
> 11 to 16	20	55	130	130	1 280
> 16 to 23	25	70	140	140	1 840
> 23 to 31	30	80	250	250	2 480
> 31 to 43	45	90	350	350	3 440
> 43 to 55	55	100	400	400	4 400
> 55	70	115	450	450	5 600

B. Cable Anchorage Test for Non-Armoured Cable

Compliance is checked by the following tests. For cable glands with a sealing system in accordance with 6.5.1, a test mandrel equivalent to the minimum value of the anchorage range of the cable gland as declared by the manufacturer or supplier is fixed to the sample. For cable glands with a sealing system in accordance with 6.5.2, a test mandrel equivalent to the minimum value of the anchorage range of the smallest orifice of the cable gland is fixed into the smallest orifice of the sample, and each remaining orifice is plugged with a plug equivalent to the minimum value of its sealing range. The test mandrel is marked when unloaded so that any displacement relative to the cable gland can be easily detected. The test mandrel is pulled 50 times for a duration of 1 Second without jerks in the direction of its axis with the relevant pull force specified in Table 2. At the end of this period the displacement shall not exceed 2mm. This measurement is to be carried out after unloading the force from the test mandrel. A typical arrangement for the cable anchorage pull test is shown in Figure 2.



Key
1 Crank Arm
2 Off Centre Pulley
3 Pivot Point
4 Mandrel
5 Cable Gland
6 Locknut
7 Load Retaining Device
8 Fulcrum Point
9 Load In N

Figure 2 - Cable Anchorage Pull Test

C. Cable Anchorage Pull Test

The sample with the test mandrel is then mounted onto the test arrangement for the cable anchorage twist test as shown in Figure 3. The test mandrel is marked when unloaded so that any displacement can be easily detected and then is subjected for 1 min to the torque as shown in Table 3. During this test the test mandrel shall not turn by more than an angle of 45°. The pull and twist tests shall be repeated using a test mandrel equivalent to the maximum value of the anchorage range of the cable gland as declared by the manufacturer or supplier with the test value of the relevant maximum cable diameter specified in Tables 2 and 3.

Table 3 – Torque Value for Cable Anchorage Twist Test

Cable Diameter mm	Torque NM
> 4 to 8	0.10
> 8 to 11	0.15
> 11 to 16	0.35
>16 to 23	0.60
>23 to 31	0.80
> 31 to 43	0.90
> 43 to 55	1.00
> 55	1.20

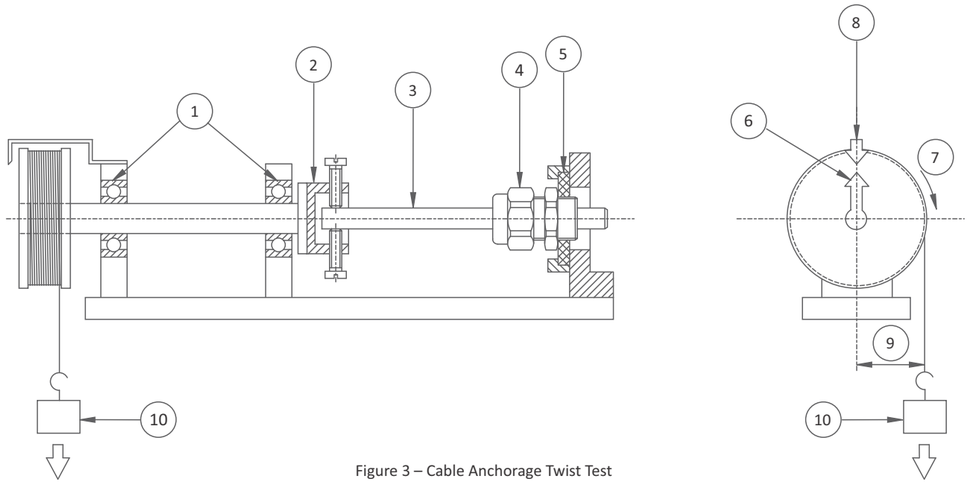


Figure 3 – Cable Anchorage Twist Test

Key

1 Bearings Enabling Easy Rotation
2 Device For Securing Test Mandrel
3 Test Mandrel
4 Sample
5 Sample Securing Plate (interchangeable)
6 Rotating Indicator
7 Direction Of Rotation
8 Fixed Rotating Indicator
9 Radius
10 Load In N

D. Cable Anchorage Test For Armoured Cable

Two samples, each consisting of two cable glands, are assembled. In the first sample, the cable glands are fitted, one at each end, to a cable 300 mm long, with the maximum over armour diameter as declared by the manufacturer or supplier. In the second sample the cable glands are fitted, one at each end, to a cable 300 mm long, with the minimum over armour diameter as declared by the manufacturer or supplier. For each sample, one cable gland is fixed and the other cable gland is loaded in accordance with the appropriate value given in Table 2. The cable is marked so that any displacement relative to each cable gland can be easily detected. The load is maintained for 5 min and at the end of this period the displacement shall not exceed 3 mm at either cable gland. A typical arrangement for cable anchorage test for armoured cable is shown in Figure 4. Following the test, the samples of cable glands classified in accordance with 6.3.1.2 shall then be subjected to the test in accordance with 10.2. Following the test, the samples of cable glands classified in accordance with 6.3.1.3 are then subjected to the test in accordance with 10.2 followed by the test in accordance with 10.3.2.

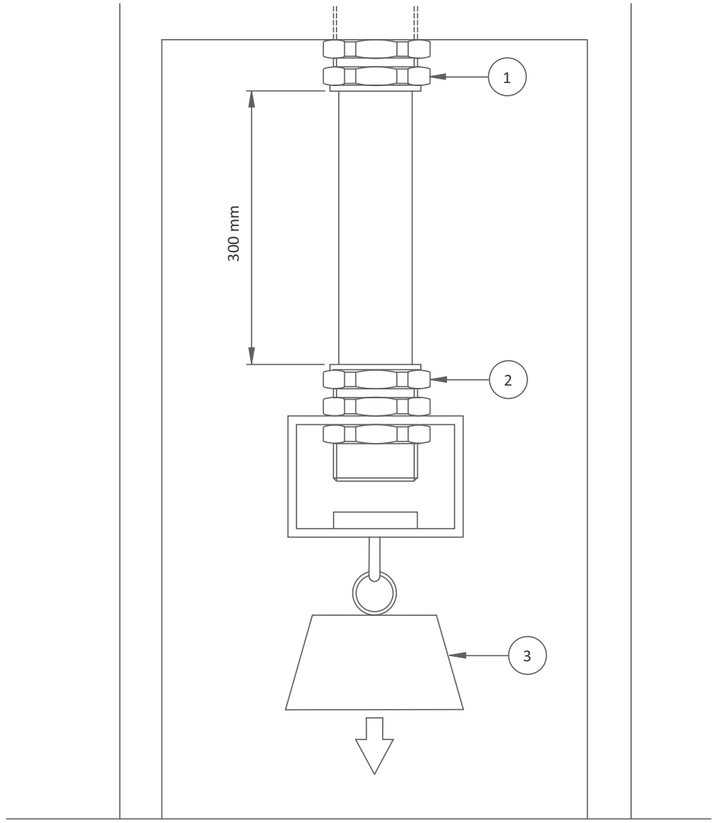


Figure 4 – Cable Anchorage Test For Armoured Cable

Key

1 Fixed Cable Gland
2 Cable Gland
3 Load In N

E. Resistance to Impact

Compliance is checked by the following test. For cable glands with a sealing system in accordance with 6.5.1, a test mandrel equivalent to the minimum value of the sealing range of the cable gland as declared by the manufacturer or supplier is fixed to the sample and then the test is carried out at the minimum temperature in accordance with 8.5 or lower if declared by the manufacturer. For cable glands with a sealing system in accordance with 6.5.2, a test mandrel equivalent to the minimum value of the sealing range of the smallest orifice of the cable gland is fixed into the smallest orifice of the sample, and each remaining orifice is plugged with a plug equivalent to the minimum value of its sealing range. The test is carried out at the minimum temperature in accordance with 8.5 or lower if declared by the manufacturer. Prior to the impact test the samples shall be placed in a refrigerator for 8 h minimum. The test temperature tolerance is ± 2 °C.

The testing can be done – inside the refrigerator at the declared minimum temperature, or – outside the refrigerator at ambient temperature (20 ± 5) °C if the cable gland previously was cooled down to the declared minimum temperature in accordance with 8.5 minus 5 °C and the impact is carried out within (15 ± 2) after the cable gland was removed from the refrigerator. For example, if the declared temperature is –20 °C and the test is carried out outside the refrigerator, then the cooling temperature shall be –25 °C. The point of impact shall be the place considered to be weakest. The sample shall be mounted on a steel base so that – the direction of impact is perpendicular to the surface being tested if it is flat, or perpendicular to the tangent of the surface at the point of impact if it is not flat; – there is no movement of the cable gland support which could influence the test results. The mass shall be fitted with an impact head of hardened steel in the form of a hemisphere of 25 mm diameter. The base shall have a mass of at least 20 kg or be rigidly fixed or inserted into the floor. A typical arrangement for the impact test is shown in Figure 5. The sample is subjected to the impact energy as given in Table 4 according to the category declared by the manufacturer or supplier.

Cable Gland Selection Chart																	
Armoured Cable Gland BW, CW, E1W & D1W Selection Chart																	
Core	Cable Conductor Size																
	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400
2	20S	20S	20S	20S	25	25	32	32	32	32	40	40	50	50	50	63	63
3	20S	20S	20S	20	25	25	32	32	32	40	40	40	50	50	63	63	75
4	20S	20S	20	20	25	25	32	32	40	40	50	50	50	63S	63	75	75
7	20S	20															
12	20	25															
19	25	25															
27	32	32															
37	32	40															
48	32	40															

Gland Selection Chart XPLE / SWA / PVX & LSF / SWA / LSF																	
Core	Cable Conductor Size																
1	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400
2	20S	20S	20S	20S	20	25	25	32	32	32	32	40	40	50S	50	50	63S
3	20S	20S	20S	20	20	25	32	32	32	32	40	40	50S	50	63S	63	75S
4	20S	20S	20	20	25	25	32	32	30	40	50S	50S	50	63S	63	75S	75
7	20S	20															
12	25	25															
19	32	25															
27	32	32															
37	32	40															

WARNING : THIS CHART IS FOR GUIDANCE ONLY - ACTUAL CABLE DIMENSIONS SHOULD BE CONSIDERED BEFORE MAKING FINAL SELECTION AS THESE MAY VERY DUE TO THE MANUFACTURING TOLERANCES PERMITTED IN BS 6346 : 1989

What is ATEX ?

ATEX is the name commonly given to the framework for controlling explosive atmospheres and the standards of equipment and protective systems used in them. It is based on the requirements of two European Directives:

1. ATEX 99/92/EC Directive

Also known as **'ATEX 137'** or the **'ATEX Workplace Directive'.** Minimum requirements for improving the health and safety protection of workers potentially at risk from explosive atmospheres. The text of the Directive and the supporting EU produced guidelines are available on the EU-website. For more information on how the requirements of the Directive have been put into effect in Great Britain see the information in the section on Equipment and protective systems intended for use in explosive atmospheres.

2. ATEX 94/9/EC Directive

Also known as **'ATEX 95'** or the **'ATEX Equipment Directive'. ATEX 94/9/EC** was **removed and replaced by a new** **Directive 2014/34/EU** from April-2016.

Equipment and protective systems intended for use in potentially explosive atmospheres. The aim of this directive is to allow the free trade of 'ATEX' equipment and protective systems within the EU by removing the need for separate testing and documentation for each member state.

The regulations apply to all equipment intended for use in explosive atmospheres, whether electrical or mechanical, including protective systems. The text of the Directive and EU produced supporting guidelines are available on the EU website. For more information on how the requirements of the Directive have been put into effect in Great Britain see the section on Selection of equipment and protective systems.

Objective of the ATEX Directive 2014/34/EU

The objective of Directive 2014/34/EU is **to ensure free movement for the products to which it applies** in the EU territory. Therefore the directive, **based on Article 95 of the EC Treaty**, provides for harmonised requirements and procedures to establish compliance. The directive notes that to remove barriers to trade via the New Approach, provided for in the Council Resolution of 7 May 1985, essential requirements regarding safety and other relevant attributes need to be defined by which a high level of protection will be ensured. These **Essential Health and Safety Requirements (EHSRs)** are listed in Annex II to Directive 2014/34/EU.

These essential health and safety requirements are specific with respect to

- Potential ignition sources of equipment intended for use in potentially explosive atmospheres ;
- Autonomous protective systems intended to come into operation following an explosion with the prime objective to halt the explosion immediately and/or limit the effects of explosion flames and pressures;
- Safety devices intended to contribute to the safe functioning of such equipment with respect to ignition source and to the safe functioning of autonomous protective systems ;
- Components with no autonomous function essential to the safe functioning of such equipment or autonomous protective system(s) Since 1st July 2003 relevant products could only be placed on the market in the EU territory7, freely moved and operated as designed and intended in the expected environment if they comply with directive 94/9/EC (and other relevant legislation).

Directive 2014/34/EU provides for the first time harmonised requirements for non-electrical equipment, equipment intended for use in environments which are potentially explosive due to dust hazards and protective systems. Safety devices intended for use outside explosive atmospheres which are required for or contribute to the safe functioning of equipment or protective systems with respect to risks of explosion are also included. This is an increase in scope compared to former national regulations for equipment and systems intended for use in potentially explosive atmospheres.

Explosive Atmosphere

In Great Britain the requirements of Directive 99/92/EC were put into effect through regulations 7 and 11 of the Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR).

The requirements in DSEAR apply to most workplaces where a potentially explosive atmosphere may occur. Some industry sectors and work activities are exempted because there is other legislation that fulfils the requirements. These exemptions are listed in regulation 3 of DSEAR

In DSEAR, an explosive atmosphere is defined as a mixture of dangerous substances with air, under atmospheric conditions, in the form of gases, vapours, mist or dust in which, after ignition has occurred, combustion spreads to the entire unburned mixture.

Atmospheric conditions are commonly referred to as ambient temperatures and pressures. That is to say temperatures of –20°C to 40°C and pressures of 0.8 to 1.1 bar.

Many workplaces may contain, or have activities that produce, explosive or potentially explosive atmospheres. Examples include places where work activities create or release flammable gases or vapours, such as vehicle paint spraying, or in workplaces handling fine organic dusts such as grain flour or wood.

Explosive atmospheres can be caused by flammable gases, mists or vapours or by combustible dusts. If there is enough of the substance, mixed with air, then all it needs is a source of ignition to cause an explosion.

Explosions can cause loss of life and serious injuries as well as significant damage. Preventing releases of dangerous substances, which can create explosive atmospheres, and preventing sources of ignition are two widely used ways of reducing the risk. Using the correct equipment can help greatly in this.

The Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR) place duties on employers to eliminate or control the risks from explosive atmospheres in the workplace. A summary of those requirements can be found below.

Where can Explosive Atmospheres be found ?

Many workplaces may contain, or have activities that produce, explosive or potentially explosive atmospheres. Examples include places where work activities create or release flammable gases or vapours, such as vehicle paint spraying, or in workplaces handling fine organic dusts such as grain flour or wood.

What does DSEAR require?

DSEAR requires employers to eliminate or control the risks from dangerous substances – further information on these requirements can be found on the DSEAR web page[6]. In addition to the general requirements, the Regulations place the following specific duties on employers with workplaces where explosive atmospheres may occur.

Classification of areas where Explosive Atmospheres may occur

Employers must classify areas where hazardous explosive atmospheres may occur into zones. The classification given to a particular zone, and its size and location, depends on the likelihood of an explosive atmosphere occurring and its persistence if it does. Schedule 2 of DSEAR contains descriptions of the various classifications of zones for gases and vapours and for dusts.

Selection of Equipment and Protective Systems

Areas classified into zones must be protected from sources of ignition. Equipment and protective systems intended to be used in zoned areas should be selected to meet the requirements of the Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 1996. Equipment already in use before July 2003 can continue to be used indefinitely provided a risk assessment shows it is safe to do so.

Hazardous Area

- A “hazardous area” is defined as an area in which the atmosphere contains, or may contain in sufficient quantities, flammable or explosive gases, dusts or vapours. In such an atmosphere a fire or explosion is possible when three basic conditions are met. This is often referred to as the “hazardous area” or “combustion” triangle.
- When electrical equipment is used in, around, or near an atmosphere that has flammable gases or vapours, flammable liquids, combustible dusts, ignitable fibers or flyings, there is always a possibility or risk that a fire or explosion might occur. Those areas where the possibility or risk of fire or explosion might occur due to an explosive atmosphere and/or mixture is often called a hazardous (or classified) location/area. Currently there are two systems used to classify these hazardous areas; the Class/Division system and the Zone system. The Class/Division system is used predominately in the United States and Canada, whereas the rest of the world generally uses the Zone system.

A. Zoning Classification

Hazardous locations as per the Zone system are classified according to its Zone which can be gas or dust. For gas atmospheres electrical equipment is further divided into Groups and Subgroups.

Zone

The Zone defines the probability of the hazardous material, gas or dust, being present in sufficient quantities to produce explosive or ignitable mixtures.

Zones		ATEX Equipment Category	Definitions
Gas	Dust		
0	20	1	Ignitable concentrations of flammable gases or vapours which are present continuously or for long periods of time.
1	21	2	Ignitable concentrations of flammable gases or vapours which are likely to occur under normal operating conditions.
2	22	3	Ignitable concentrations of flammable gases or vapours which are not likely to occur under normal operating conditions and do so only for a short period of time.

ATEX Category	Typical Zone Suitability
1G	Equip. suitable for zone 0
1D	Equip. suitable for zone 20
2G	Equip. suitable for zone 1
2D	Equip. suitable for zone 21
3G	Equip. suitable for zone 2
3D	Equip. suitable for zone 22

The table below shows the relationship between the category and the expected zone of use.

ATEX categories and its applications				
Category	Degree of safety	Design Requirement	Application	Expected Zone of Use
1	Very high level of safety	Two independent mean of protection or safe with two independent faults	Where explosive atmospheres are present continuously or for lengthy periods	Zone 0 (Gas) and Zone 20 (Dust)
2	High level of safety	Safe with frequently occurring disturbances of with a normal operating fault	Where explosive atmospheres are likely to occur	Zone 1 (Gas) and Zone 21 (Dust)
3	Normal level of safety	Safe in normal operation	Where explosive atmospheres are likely to occur in frequently and be of short duration	Zone 2 (Gas) and Zone 22 (Dust)

B. Group Classification

The Type of Hazard
The type of hazard will be in the form of either a gas or vapours or a dust or fiber. The classification of these hazardous is primarily divided into two groups depending on whether it is in a mining or above surface industry. These are defined below:

Group I : Electrical equipment for use in mines and underground installations susceptible to firedamp.

Group II and Group III: Electrical equipment for use in surface installations.

Group II : Gases are grouped together based upon the amount of energy required to ignite the most explosive mixture of the gas with air.

Group III : Dusts are subdivided according to the nature of the explosive atmosphere for which it is intended.

Groups II & III are further sub-divided depending upon the hazard.

Mining	Surface Industries			
Group I	Group II		Group III	
Electrical equipment for mines susceptible to firedamp	Electrical equipment for places with an explosive gas atmosphere		Electrical equipment for places with an explosive dust atmosphere	
	Sub-Division	Ignition Energy	Sub-Division	Explosive Atmosphere
	IIA	260 µJ	IIIA	Combustible flyings
	IIB	95 µJ	IIIB	Non-conductive dust
	IIC	18 µJ	IIIC	Conductive dust

Gas Group	
Gas Group	Representative Test Gas
I	Methane (Mining only)
IIA	Propane
IIB	Ethylene
IIC	Hydrogen

Dust Group	
Dust Group	Representative Test Dust
IIIA	Combustible flyings
IIIB	Non-conductive dust
IIIC	Conductive dust

- Group IIA : Atmospheres containing propane, or gases and vapours of equivalent hazard.
- Group IIB : Atmospheres containing ethylene, or gases and vapours of equivalent hazard.
- Group IIC : Atmospheres containing acetylene or hydrogen, or gases and vapours of equivalent hazard.

C. Protection Concept

Protection Type:

To ensure safety in a given situation, equipment is placed into protection level categories according to manufacture method and suitability for different situations. Category 1 is the highest safety level and Category 3 the lowest. Although there are many types of protection, a few are detailed.

Type of Protection	CENELEC Ex Code	IEC Standard	Description	Location	Usages
Flameproof	**d**	IEC 60079-1	Equipment is robust can stand an explosion from within, without transmitting the flame to the outside. Equipment has flameproof gaps (max 0.006" propane/ethylene, 0.004" acetylene/hydrogen).	Zone 1 if gas group & temp. class correct	Motors, lighting, junction boxes
Increased Safety	**e**	IEC 60079-7	Equipment is very robust and components are made to a high quality.	Zone 1, 2	Motors, lighting, junction boxes
Oil Immersion	**o**	IEC 60079-6	Equipment components are completely covered with a layer of oil.	Zone 2 or Zone 1, depending on edition of the standard used.	Heavy current equipment
Powder filling	**q**	IEC 60079-5	Equipment components are completely covered with a layer of Sand, powder or quartz.	Zone 2	Electronics, telephones, chokes
Encapsulated	**m**	IEC 60079-18	Equipment components of the equipment are usually encased in a resin type material.	'ma' : Zone 0 'mb' : Zone 1	Electronics (no heat)
Pressurised	**p**	IEC 60079-2	Equipment is pressurised with a positive pressure; gas cannot get in for air coming out or equipment is purged with a diluting gas such as air. If air is used, it is ducted in from outside the hazardous area.	Zone 1	Analysers, motors, control boxes, computers
Intrinsically safe	**i**	IEC 60079-11	Any arcs or sparks in this equipment has insufficient energy (heat) to ignite a vapour. Equipment can be installed in ANY housing provided to Ip54. A 'Zener Barrier' or 'opto isol' or 'galvanic' unit may be used to assist with certification.	'ia' : Zone 0 & 1 'ib' : Zone 1	Instrumentation, measurement, control
Non Incendive	**n**	IEC 60079-15	Equipment is non-incendive or non-sparking.	Zone 2	Motors, lighting, junction boxes, electronic equipment
Special Protection	**s**	IEC 60079-0	This method, being by definition special, has no specific rules. In effect it is any method which can be shown to have the required degree of safety in use. Much early equipment having Ex s protection was designed with encapsulation and this has now been incorporated into IEC 60079-18 [Ex m]. Ex s is a coding referenced in IEC 60079-0. The use of EPL and ATEX Category directly is an alternative for "s" marking.	Zone 1 depending upon Manufacturers Certification.	As its certification states
Protection by enclosure	**t**	IEC 60079-31	An enclosure which excludes dust, and which will not permit arcs, sparks or heat otherwise generated or liberated inside the enclosure to cause ignition of exterior accumulations or atmospheric suspensions of a specified dust on or in the vicinity of the enclosure.	'ta': Zone 20, 21, 22 'tb': Zone 21, 22 'tc': Zone 22	-

Protection Level (Equipment Protection Level)

- **EPL Ga** : Equipment for explosive gas atmospheres, having a 'very high' level of protection, which is not a source of ignition in normal operation, expected faults or when subject to rare faults.
- **EPL Gb** : Equipment for explosive gas atmospheres, having a 'high' level of protection, which is not a source of ignition in normal operation or when subject to faults that may be expected, though not necessarily on a regular basis.

  NOTE: The majority of the standard Ex-protection concepts bring equipment within this equipment protection level.
- **EPL Gc** : Equipment for explosive gas atmospheres, having a 'enhanced' level of protection, which is not a source of ignition in normal operation and which may have some additional protection to ensure that it remains inactive as an ignition source in the case of regular expected occurrences (for example failure of a lamp).

  NOTE: Typically this will be Ex n equipment.
- **EPL Da :** Equipment for combustible dust atmospheres, having a 'very high' level of protection, which is not a source of ignition in normal operation or when subject to rare faults.
- **EPL Db** : Equipment for combustible dust atmospheres, having a 'high' level of protection, which is not a source of ignition in normal operation or when subject to faults that may be expected, though not necessarily on a regular basis.
- **EPL Dc** : Equipment for combustible dust atmospheres, having an 'enhanced' level of protection, which is not a source of ignition in normal operation and which may have some additional protection to ensure that it remains inactive as an ignition source in the case of regular expected occurrences.

Ingress Protection (IP)

Ingress Protection (IP) rating are developed by the European Committee for Electro Technical Standardization (CENELEC) (NEMA IEC 60529 Degree of Protection Provided by Enclosure -IP Code), specifying the environmental protection the enclosure provides.

The IP Rating is an accepted engineering standard for defining the protection of electrical equipment from dust and moisture ingress.

For pressure sensors and associated instrumentation the 2 digit version of the IP rating is used to indicate how well the design will prevent dust and water getting into the electronic enclosure.

The IP rating normally has two digits :

•1st Digit : Protection from solid objects or materials **•2nd Digit :** Protection from liquids (water)

IP First digit - Protect against solid objects or materials

The higher the first digit of IP rating, the better the ingress protection from dust, sand or dirt particles penetrating the outer enclosure and damaging the internal components.

Code	Definition
0	No special protection
1	Protection against solid objects over 50mm, e.g. accidental touch by person's hand
2	Protection against solid objects over 12mm, e.g. accidental touch by person's fingers
3	Protection against solid objects over 2.5mm, e.g. tools, thick wires
4	Protection against solid objects over 1mm, e.g. small wires, slender screws, ants
5	Protection against limited dust ingress
6	Totally protected against dust

IP Second digit - Protect against liquid (water)

The higher the second digit of IP rating, the better the ingress protection from water moisture leaking inside and corroding components or shorting out electrical & electronic circuits

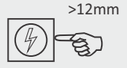
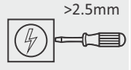
Code	Definition
0	No special protection
1	Protection against vertically falling drops of water, e.g. Condensation
2	Protection against direct spraying of water when tilted up to 15° from the vertical
3	Protection against direct spraying of water when tilted up to 60° from the vertical
4	Protection against spraying of water from all direction-limited ingress permitted
5	Protection against low pressure water jet from all direction-limited ingress
6	Protection against temporary flooding of water, e.g. for use on ship decks- limited ingress permitted
7	Protection against the effect of immersion between 15cm and 1m
8	Protection against long periods of immersion under pressure

Example: IP rating

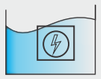
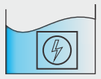
IP 65: First Numeral 6 describes totally protected against dust, Second Numeral 5 describes protected against low pressure water jet from all direction

Index of IP Protection

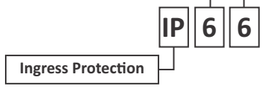
Protection against solid objects

1ST Digit	Test Parameter	Protection Definition
0	No test applied	No specific protection
1		Protect against solid objects larger than 50mm. e.g. accidental touch by persons hands.
2		Protect against solid objects larger than 12mm. e.g. such as persons fingers.
3		Protect against solid objects larger than 2.5mm. e.g. such as tools & screwdrivers.
4		Protect against solid objects larger than 1mm. e.g. such as tools, wires and small wires.
5		Protect against dust limited ingress. (no harmful deposit).
6		Totally Protect against dust.

Protection against liquid (water)

2nd Digit	Test Parameter	Protection Definition
0	No test applied	No specific protection
1		Protect against vertically falling drops of water. e.g. contention.
2		Protect against direct sprays of water up to 15° from verticle.
3		Protect against direct sprays of water up to 60° from verticle.
4		Protect against water sprayed from all directions. Limited ingress permitted.
5		Protect against low pressure jets of water from all directions. Limited ingress permitted.
6		Protect against temporary flooding of water. e.g. for use on ship decks. Limited ingress permitted.
7		Protect against the effect of immersion between 15cm to 1m. For 30 minutes.
8		Protect against long period of immersion under pressure

IP Rating Example :



D. Temperature Classification

Another important consideration is the temperature classification of the electrical equipment. The surface temperature or any parts of the electrical equipment that may be exposed to the hazardous atmosphere should be tested that it does not exceeds 80% of the auto-ignition temperature of the specific gas or vapours in the area where the equipment is intended to be used.

The temperature classification on the electrical equipment label will be one of the following (in degree Celsius):

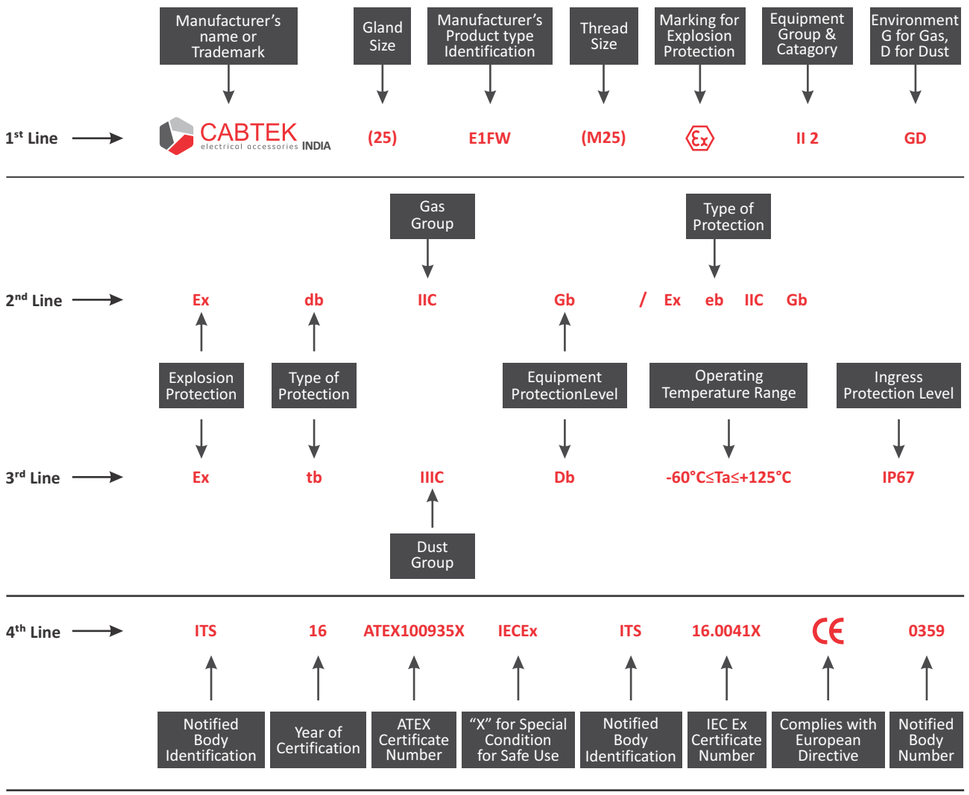
Temperature Class	Max. Surface Temperature of Equipment in °C (USA)	Max. Surface Temperature of Equipment in °C (UK)	Temperature Class and Range (Germany)
T1	450	450	G1: 360 - 400
T2	300	300	G2: 240 - 270
T2A	280	-	G3: 160 - 180
T2B	260	-	G4: 100 - 125
T2C	230	-	G5: 80 - 90
T2D	215	-	-
T3	200	200	-
T3A	180	-	-
T3B	165	-	-
T3C	160	-	-
T4	135	135	-
T4A	120	-	-
T5	100	100	-
T6	85	85	-

ATEX Approved Product Marking

Marking of equipment must include: manufacturer's name, model number, and the Ex-marking

Ex-marking includes:

- Type of protection (db, ia, eb, tb, nA etc.)
- Group for which equipment is approved (IIA, IIB, IIIC..)
- Temperature code or maximum surface temperature (T1,T2,...T6)
- Equipment Protection Levels (Ga,Gb or Gc)
- The European Community symbol or marking for explosion-protected equipment



CABTEK INDIA **25E1FWM25** Ex **II 2 GD** CE **0359**

Ex db IIC Gb or Ex eb IIC Gb.....

Ex tb IIIC Db -60°C≤Ta≤+125°C IP67.....

ITS16ATEX100935X.....

IECEx ITS 16.0041X.....

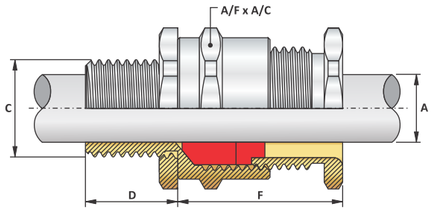
In addition to displaying the Ex certification mark (e.g. ITS16ATEX100935X in above Example) which indicates that product has been tested and certified by a Notified Body, there are specific marking requirements for products under the ATEX Directive. The above example demonstrates what a product marking should look like

CABTEK electrical accessories

Ex
Cable Gland

A2F Ex “d” and Ex “e” Cable Gland

Size	: 16mm to 90mm & ½" to 3½”	**Ingress Protection**	: IP67 as per EN 60529.
Standard	: EN/IEC 60079-0:2012+A11:2013/2011, EN/IEC 60079-1:2014, EN/IEC 60079-7:2015, EN/IEC 60079-31:2014/2013	**Operating Temp.**	: -60°C to +125°C
		Material	: Brass CW614N/CW617N/EN12165, Stainless Steel 316L
Function	: Providing flameproof seal on outer sheaths of all types of unarmoured cable in indoor and outdoor hazardous area.	**Thread**	: Metric, NPT, BSP, ET and PG
		Features	: Outer Displacement Seal
IECEx Certificate No.	: IECEx ITS 16.0041X	**Seal Material**	: LSOH Silicone Seal & LSOH Nylon Washer
ATEX Certificate No.	: ITS16ATEX100935X	**Accessories**	: PVC Shroud, Earth Tag, Thread Seal, Adaptor & Reducer, Serrated Washer
Code of Protection	: **Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db**		



Gland Selection Chart

Size	Standard Thread Size “C”				Optional Thread		Thread Length “D”	Cable Dia. A		Protrusion Length “F”	A/F	A/C
	Metric	NPT/BSP	ET	PG	Metric	NPT		Min.	Max.			
20s16	20	½”	¾”	PG11	25	¾”	15.00	3.10	8.60	42.30	24.00	26.20
20S	20	½”	¾”	PG13.5	25	¾”	15.00	6.10	11.70	42.25	24.00	26.20
20	20	½”	¾”	PG16	25	¾”	15.00	6.50	13.90	42.50	27.00	29.50
25	25	¾”	1"	PG21	32	1"	15.00	11.30	19.90	51.40	36.00	39.20
32	32	1"	1¼”	PG29	40	1¼”	15.00	17.00	26.20	52.30	41.00	45.00
40	40	1¼”	1½”	PG36	50	1½”	15.00	23.60	32.10	52.25	50.00	55.00
50S	50	1½”	2"	PG36	63	2"	15.00	31.50	38.20	51.25	55.00	60.00
50	50	2"	2"	PG42	63	2 ½”	15.00	35.80	44.00	53.50	60.00	65.00
63S	63	2"	2½”	PG48	75	2½”	15.00	41.70	50.00	51.50	70.00	75.00
63	63	2½”	2½”	-	75	3”	15.00	47.50	56.00	53.40	75.00	80.00
75S	75	2½”	3"	-	90	3"	15.00	55.00	62.00	57.40	85.00	90.00
75	75	3"	3”	-	90	3½”	15.00	62.00	68.00	59.30	90.00	95.00
90	90	3½”	3½”	-	100	4”	18.00	67.00	79.00	65.20	110.00	118.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	A2F	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

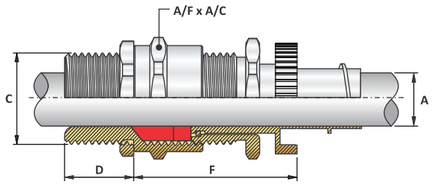
How to Order ?

Item Code: 20s16A2F 1 11 PS 5
Code Meaning: Brass A2F 20s16 Cable Gland.

20s16=Gland Size, A2F=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

A2FFC- Ex “d” Cable Gland

Size	: 16mm to 50mm & ½" to 2½”	**Ingress Protection**	: IP66 as per EN 60529.
Standard	: EN60079-0:2012+A11:2013, EN60079-1:2014, EN60079-31:2014	**Operating Temp.**	: -60°C to +125°C
		Material	: Brass CW614N/CW617N/EN12165, Stainless Steel 316L
Function	: Providing flameproof seal on outer sheaths of all types of unarmoured cable in indoor and outdoor hazardous area. With rotating flexible conduit connection facility.	**Thread**	: Metric, NPT, BSP, ET and PG
		Features	: Outer Displacement Seal
		Seal Material	: LSOH Silicone Seal & LSOH Nylon Washer
ATEX Certificate No.	: TI16ATEX 671-2 X	**Accessories**	: PVC Shroud, Earth Tag, Thread Seal, Adaptor & Reducer
Code of Protection	: **Ex db IIC Gb, Ex tb IIIC Db**		



Gland Selection Chart

Size	Standard Thread Size “C”				Optional Thread		Thread Length “D”	Flexible Conduit Diameter			Cable Dia. A		Protrusion Length “F”	A/F	A/C
	Metric	NPT	ET	PG	Metric	NPT		Size code	Conduit Internal Diameter	Conduit External Diameter	Min.	Max.			
20s16	20	½”	¾”	PG11	25	¾”	15.00	A010	9.50	15.00	3.10	8.60	35.75	24.00	26.20
20s16	20	½”	¾”	PG11	25	¾”	15.00	A020	11.70	17.40	3.10	8.60	35.75	24.00	26.20
20S	20	½”	¾”	PG13.5	25	¾”	15.00	A040	13.00	20.00	6.10	11.70	35.25	24.00	26.20
20S	20	½”	¾”	PG13.5	25	¾”	15.00	A045	13.90	20.00	6.10	11.70	35.25	24.00	26.20
20S	20	½”	¾”	PG13.5	25	¾”	15.00	A060	14.70	21.50	6.10	11.70	35.75	24.00	26.20
20	20	½”	¾”	PG16	25	¾”	15.00	A050	15.60	21.60	6.50	13.90	36.40	27.00	29.50
20	20	½”	¾”	PG16	25	¾”	15.00	A066	16.90	23.40	6.50	13.90	36.40	27.00	29.50
20	20	½”	¾”	PG16	25	¾”	15.00	A070	18.00	24.00	6.50	13.90	36.15	27.00	29.50
20	20	½”	¾”	PG16	25	¾”	15.00	A080	20.00	26.30	6.50	13.90	35.80	27.00	29.50
25	25	¾”	1"	PG21	32	1"	15.00	A110	22.30	28.50	11.30	19.90	45.50	36.00	39.20
25	25	¾”	1"	PG21	32	1"	15.00	A120	25.10	31.00	11.30	19.90	45.50	36.00	39.20
32	32	1"	1¼”	PG29	40	1¼”	15.00	A250	28.10	35.80	17.00	26.20	47.00	41.00	45.00
32	32	1"	1¼”	PG29	40	1¼”	15.00	A280	30.40	38.00	17.00	26.20	46.50	41.00	45.00
40	40	1¼”	1½”	PG36	50	1½”	15.00	A300	36.40	45.00	23.60	32.10	46.90	50.00	55.00
50S	50	1½”	2"	PG36	63	2"	15.00	A450	46.50	58.70	31.50	38.20	49.50	55.00	60.00
50	50	2"	2"	PG42	63	2½"	15.00	A550	51.20	61.00	35.80	44.00	49.50	60.00	65.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	A2FFC	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

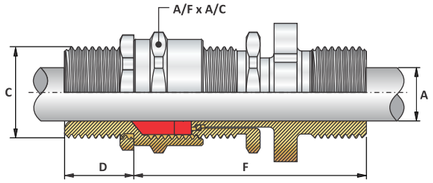
How to Order ?

Item Code: 20s16A2FFC 1 11 PS 5
Code Meaning: Brass A2FFC 20s16 Cable Gland.

20s16=Gland Size, A2FFC=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

A2FRM- Ex “d” Cable Gland

Size	: 16mm to 90mm & ½" to 4”	**Ingress Protection**	: IP66 as per EN 60529.
Standard	: EN60079-0:2012+A11:2013, EN60079-1:2014, EN60079-31:2014	**Operating Temp.**	: -60°C to +125°C
Function	: Providing flameproof seal on outer sheaths of all types of unarmoured cable in indoor and outdoor hazardous area. With rotating male rigid conduit connection facility.	**Material**	: Brass CW614N/CW617N/EN12165, Stainless Steel 316L
		Thread	: Metric, NPT, BSP, ET and PG
		Features	: Outer Displacement Seal
		Seal Material	: LSOH Silicone Seal & LSOH Nylon Washer
ATEX Certificate No.	: TI16ATEX 671-2 X	**Accessories**	: PVC Shroud, Earth Tag, Thread Seal, Adaptor & Reducer
Code of Protection	: **Ex db IIC Gb, Ex tb IIIC Db**		



Gland Selection Chart

Size	Standard Thread Size “C”				Optional Thread		Thread Length “D”	Female Conduit Connection Thread			Cable Dia. A		Protrusion Length “F”	A/F	A/C
	Metric	NPT/BSP	ET	PG	Metric	NPT		Metric	NPT	BSP	Min.	Max.			
20s16	20	½”	¾”	PG11	25	¾”	15.00	20	½”	½”	3.10	8.60	37.10	24.00	26.20
20S	20	½”	¾”	PG13.5	25	¾”	15.00	20	½”	½”	6.10	11.70	36.80	24.00	26.20
20	20	½”	¾”	PG16	25	¾”	15.00	20	½”	½”	6.50	13.90	37.80	27.00	29.50
25	25	¾”	1"	PG21	32	1"	15.00	25	¾”	¾”	11.30	19.90	44.55	36.00	39.20
32	32	1"	1¼”	PG29	40	1¼”	15.00	32	1"	1"	17.00	26.20	46.90	41.00	45.00
40	40	1¼”	1½”	PG36	50	1½”	15.00	40	1¼”	1¼”	23.60	32.10	47.40	50.00	55.00
50S	50	1½”	2"	PG36	63	2"	15.00	50	1½”	1½”	31.50	38.20	47.00	55.00	60.00
50	50	2"	2"	PG42	63	2½”	15.00	50	1½”	1½”	35.80	44.00	49.25	60.00	65.00
63S	63	2"	2½”	PG48	75	2½”	15.00	63	2"	2"	41.70	50.00	48.00	70.00	75.00
63	63	2½”	2½”	-	75	3"	15.00	63	2”	2”	47.50	56.00	49.25	75.00	80.00
75S	75	2½”	3"	-	90	3”	15.00	75	2½”	2½”	55.00	62.00	51.50	80.00	85.00
75	75	3"	3”	-	90	3½”	15.00	75	2½”	2½”	62.00	68.00	53.00	85.00	90.00
90	90	3½”	3½”	-	100	4”	18.00	90	3"	3"	67.00	79.00	73.00	110.00	118.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	A2FRM	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

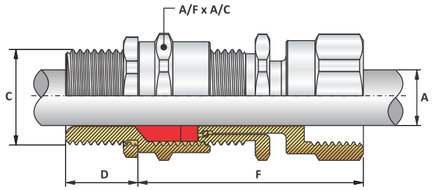
How to Order ?

Item Code: 20s16A2FRM 1 11 PS 5
Code Meaning: Brass A2FRM 20s16 Cable Gland.

20s16=Gland Size, A2FRM=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

A2FRF- Ex “d” Cable Gland

Size	: 16mm to 90mm & ½" to 4”	**Ingress Protection**	: IP66 as per EN 60529.
Standard	: EN60079-0:2012+A11:2013, EN60079-1:2014, EN60079-31:2014	**Operating Temp.**	: -60°C to +125°C
Function	: Providing flameproof seal on outer sheaths of all types of unarmoured cable in indoor and outdoor hazardous area. With rotating female rigid conduit connection facility.	**Material**	: Brass CW614N/CW617N/EN12165, Stainless Steel 316L
		Thread	: Metric, NPT, BSP, ET and PG
		Features	: Outer Displacement Seal
		Seal Material	: LSOH Silicone Seal & LSOH Nylon Washer
ATEX Certificate No.	: TI16ATEX 671-2 X	**Accessories**	: PVC Shroud, Earth Tag, Thread Seal, Adaptor & Reducer
Code of Protection	: **Ex db IIC Gb, Ex tb IIIC Db**		



Gland Selection Chart

Size	Standard Thread Size “C”				Optional Thread		Thread Length “D”	Male Conduit Connection Thread			Cable Dia. A		Protrusion Length “F”	A/F	A/C
	Metric	NPT/BSP	ET	PG	Metric	NPT		Metric	NPT	BSP	Min.	Max.			
20s16	20	½”	¾”	PG11	25	¾”	15.00	20	½”	½”	3.10	8.60	47.10	24.00	26.20
20S	20	½”	¾”	PG13.5	25	¾”	15.00	20	½”	½”	6.20	11.70	46.80	24.00	26.20
20	20	½”	¾”	PG16	25	¾”	15.00	20	½”	½”	6.50	13.90	47.30	27.00	29.50
25	25	¾”	1"	PG21	32	1"	15.00	25	¾”	¾”	11.30	19.90	55.30	36.00	39.20
32	32	1"	1¼”	PG29	40	1¼”	15.00	32	1"	1"	17.00	26.20	60.40	41.00	45.00
40	40	1¼”	1½”	PG36	50	1½”	15.00	40	1¼”	1¼”	23.60	32.10	60.90	50.00	55.00
50S	50	1½”	2"	PG36	63	2"	15.00	50	1½”	1½”	31.50	38.20	61.50	55.00	60.00
50	50	2"	2"	PG42	63	2½”	15.00	50	2½”	2"	35.80	44.00	64.00	60.00	65.00
63S	63	2"	2½”	PG48	75	2½”	15.00	63	2"	2"	41.70	50.00	62.25	70.00	75.00
63	63	2½”	2½”	-	75	3”	15.00	63	2”	2½”	47.50	56.00	64.00	75.00	80.00
75S	75	2½”	3"	-	90	3"	15.00	75	2½”	2½”	55.00	62.00	66.50	80.00	85.00
75	75	3"	3”	-	90	3½”	15.00	75	2½”	2½”	62.00	68.00	68.00	85.00	90.00
90	90	3½”	3½”	-	100	4”	18.00	90	3"	3”	67.00	79.00	93.00	110.00	118.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	A2FRF	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

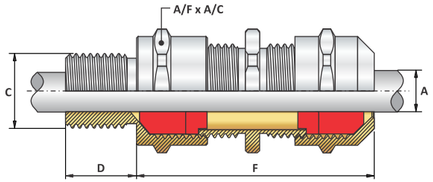
How to Order ?

Item Code: 20s16A2FRF 1 11 PS 5
Code Meaning: Brass A2FRF 20s16 Cable Gland.

20s16=Gland Size, A2FRF=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

SS2KGP Ex “d” Cable Gland

Size	:	16mm to 90mm & ½" to 3½”	**Ingress Protection**	:	IP66 as per EN 60529.
Standard	:	EN60079-0:2012+A11:2013, EN60079-1:2014, EN60079-31:2014	**Operating Temp.**	:	-60°C to +125°C
Function	:	Providing flameproof seal on cable inner & outer sheath, and a secondary environmental seal on cable outer sheath in indoor and outdoor hazardous area.	**Material**	:	Brass CW614N/CW617N/EN12165, Stainless Steel 316L
			Thread	:	Metric, NPT, BSP, ET and PG
			Features	:	Outer Displacement Seal
ATEX Certificate No.	:	TI16ATEX 671-1 X	**Seal Material**	:	LSOH Silicone Seal & LSOH Nylon Washer
Code of Protection	:	**Ex db IIC Gb, Ex tb IIIC Db**	**Accessories**	:	PVC Shroud, Earth Tag, Thread Seal, Adaptor & Reducer



Gland Selection Chart

Size	Standard Thread Size “C”				Optional Thread		Thread Length “D”	Cable Dia. “A”		Protrusion Length “F”	A/F	A/C
	Metric	NPT/BSP	ET	PG	Metric	NPT		Min.	Max.			
20s16	20	½”	¾”	PG11	25	¾”	15.00	3.10	8.60	87.90	24.00	26.20
20S	20	½”	¾”	PG13.5	25	¾”	15.00	6.20	11.70	87.65	24.00	26.20
20	20	½”	¾”	PG16	25	¾”	15.00	6.50	13.90	88.15	27.00	29.50
25	25	¾”	1"	PG21	32	1"	15.00	11.30	19.90	100.40	36.00	39.20
32	32	1"	1¼”	PG29	40	1¼”	15.00	17.00	26.20	106.75	41.00	45.00
40	40	1¼”	1½”	PG36	50	1½”	15.00	23.60	32.10	107.25	50.00	55.00
50S	50	1½”	2"	PG36	63	2"	15.00	31.50	38.20	107.35	55.00	60.00
50	50	2"	2"	PG42	63	2½”	15.00	35.80	44.00	109.85	60.00	65.00
63S	63	2"	2½”	PG48	75	2½”	15.00	41.70	50.00	108.60	70.00	75.00
63	63	2½”	2½”	-	75	3"	15.00	47.50	56.00	109.35	75.00	80.00
75S	75	2½”	3"	-	90	3"	15.00	55.00	62.00	122.85	80.00	85.00
75	75	3"	3”	-	90	3½”	15.00	62.00	68.00	130.60	85.00	90.00
90	90	3½”	3½”	-	100	4”	18.00	67.00	79.00	146.85	110.00	118.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	SS2KGP	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

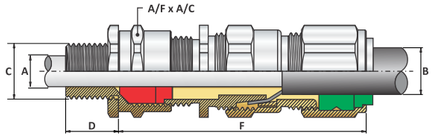
How to Order ?

Item Code: 20s16SS2KGP 1 11 PS 5
Code Meaning: Brass SS2KGP 20s16 Cable Gland.

20s16=Gland Size, SS2KGP=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

E1FW Ex “d” and Ex “e” Cable Gland

Size	:	16mm to 90mm & ½" to 3½”	**Code of Protection**	:	**Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db**
Standard	:	EN/IEC 60079-0:2012+A11:2013/2011, EN/IEC 60079-1:2014, EN/IEC 60079-7:2015, EN/IEC 60079-31:2014/2013	**Ingress Protection**	:	IP67 as per EN 60529.
Application	:	For indoor & outdoor hazardous area use with all types of SWA cable providing flameproof seal on cable inner sheath and environmental seal on cable outer sheaths. Also provides mechanical retention & electrical continuity via armour wire termination.	**Operating Temp.**	:	-60°C to +125°C
			Material	:	Brass CW614N/CW617N/EN12165, Stainless Steel 316L
			Thread	:	Metric, NPT, BSP, ET and PG
			Cable Type	:	Single Wire Armoured (SWA) Cable
			Features	:	Displacement Seal and Armoured Ring
			Seal Material	:	LSOH Silicone Seal & LSOH Nylon Washer
			Accessories	:	PVC Shroud, Earth Tag, Thread Seal, Adaptor & Reducer, Serrated Washer
IECEx Certificate No.	:	IECEx ITS 16.0041X			
ATEX Certificate No.	:	ITS16ATEX100935X			



Gland Selection Chart

Size	Standard Thread Size “C”				Optional Thread		Thread Length “D”	Cable Dia. “A”		Cable Dia. “B”		Armour Wire Dia	Protrusion Length “F”	A/F	A/C
	Metric	NPT/BSP	ET	PG	Metric	NPT		Min.	Max.	Min.	Max.				
20s16	20	½”	¾”	PG11	25	¾”	15.00	3.10	8.60	6.10	13.10	0.9	84.20	24.00	26.20
20S	20	½”	¾”	PG13.5	25	¾”	15.00	6.10	11.70	9.50	15.90	0.9-1.25	84.30	24.00	26.20
20	20	½”	¾”	PG16	25	¾”	15.00	6.50	13.90	12.50	20.90	0.9-1.25	88.40	30.00	33.00
25	25	¾”	1"	Pg21	32	1”	15.00	11.30	19.90	19.90	26.20	1.25-1.6	102.50	36.00	39.20
32	32	1"	1¼”	PG29	40	1¼”	15.00	17.00	26.20	23.70	33.90	1.6-2.0	105.30	46.00	50.60
40	40	1¼”	1½”	PG36	50	1½”	15.00	23.60	32.10	27.90	40.40	1.6-2.0	105.20	55.00	60.00
50S	50	1½”	2"	PG36	63	2”	15.00	31.50	38.20	35.20	46.70	2.0-2.5	104.25	60.00	65.00
50	50	2"	2"	PG42	63	2½”	15.00	35.80	44.00	40.40	53.00	2.0-2.5	105.25	70.00	75.00
63S	63	2"	2½”	PG48	75	2½”	15.00	41.70	50.00	45.60	59.40	2.0-2.5	106.75	75.00	80.00
63	63	2½”	2½”	-	75	3”	15.00	47.50	56.00	54.60	65.80	2.0-2.5	110.30	80.00	85.00
75S	75	2½”	3"	-	90	3”	15.00	55.00	62.00	59.00	72.00	2.0-2.5	118.30	90.00	95.00
75	75	3"	3”	-	90	3½”	15.00	62.00	68.00	66.70	78.40	2.5-3.00	122.25	100.00	110.00
90	90	3½”	3½”	-	100	4”	18.00	67.00	79.00	76.20	90.30	3.0-3.50	151.50	112.00	122.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	E1FW	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

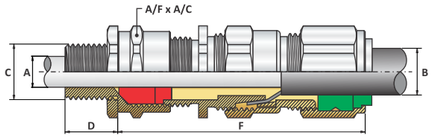
How to Order ?

Item Code: 20s16E1FW 1 11 PS 5
Code Meaning: Brass E1FW 20s16 Cable Gland.

20s16=Gland Size, E1FW=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

E1FX Ex “d” and Ex “e” Cable Gland

Size	: 16mm to 90mm & ½" to 3½”	**Ingress Protection**	: IP67 as per EN 60529.
Standard	: EN/IEC 60079-0:2012+A11:2013/2011, EN/IEC 60079-1:2014, EN/IEC 60079-7:2015, EN/IEC 60079-31:2014/2013	**Operating Temp.**	: -60°C to +125°C
		Material	: Brass CW614N/CW617N/EN12165, Stainless Steel 316L
Application	: For indoor & outdoor hazardous area use with all types of SWA cable providing flameproof seal on cable inner sheath and environmental seal on cable outer sheaths. Also provides mechanical retention & electrical continuity via armour wire termination.	**Thread**	: Metric, NPT, BSP, ET and PG
		Cable Type	: Wire Braid Armour, Screened Flexible Wire Braid (CY/SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA)
IECEx Certificate No.	: IECEx ITS 16.0041X	**Features**	: Displacement Seal and Armoured Ring
ATEX Certificate No.	: ITS16ATEX100935X	**Seal Material**	: LSOH Silicone Seal & LSOH Nylon Washer
Code of Protection	: **Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db**	**Accessories**	: PVC Shroud, Earth Tag, Thread Seal, Adaptor & Reducer



Gland Selection Chart

Size	Standard Thread Size “C”				Optional Thread		Thread Length “D”	Cable Dia. “A”		Cable Dia. “B”		Armour Wire Dia	Protrusion Length “F”	A/F	A/C
	Metric	NPT/BSP	ET	PG	Metric	NPT		Min.	Max.	Min.	Max.				
20s16	20	½”	¾”	PG11	25	¾”	15.00	3.10	8.60	6.10	13.10	0.3-1.0	84.20	24.00	26.20
20S	20	½”	¾”	PG13.5	25	¾”	15.00	6.10	11.70	9.50	15.90	0.3-1.0	84.30	24.00	26.20
20	20	½”	¾”	PG16	25	¾”	15.00	6.50	13.90	12.50	20.90	0.4-1.0	88.40	30.00	33.00
25	25	¾”	1"	PG21	32	1”	15.00	11.30	19.90	19.90	26.20	0.4-1.2	102.50	36.00	39.20
32	32	1"	1¼”	PG29	40	1¼”	15.00	17.00	26.20	23.70	33.90	0.4-1.2	105.30	46.00	50.60
40	40	1¼”	1½”	PG36	50	1½”	15.00	23.60	32.10	27.90	40.40	0.4-1.6	105.20	55.00	60.00
50S	50	1½”	2"	PG36	63	2”	15.00	31.50	38.20	35.20	46.70	0.4-1.6	104.20	60.00	65.00
50	50	2"	2"	PG42	63	2½”	15.00	35.80	44.00	40.40	53.00	0.6-1.6	105.25	70.00	75.00
63S	63	2"	2½”	PG48	75	2½”	15.00	41.70	50.00	45.60	59.40	0.6-1.6	106.75	75.00	80.00
63	63	2½”	2½”	-	75	3”	15.00	47.50	56.00	54.60	65.80	0.6-1.6	110.30	80.00	85.00
75S	75	2½”	3"	-	90	3”	15.00	55.00	62.00	59.00	72.00	0.6-1.6	118.30	90.00	95.00
75	75	3"	3”	-	90	3½”	15.00	62.00	68.00	66.70	78.40	0.6-1.6	122.25	100.00	110.00
90	90	3½"	3½”	-	100	4”	18.00	67.00	79.00	76.20	90.30	0.8-1.6	151.50	112.00	122.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	E1FX	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

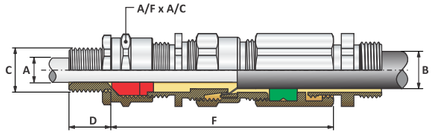
How to Order ?

Item Code: 20s16E1FX 1 11 PS 5
Code Meaning: Brass E1FX 20s16 Cable Gland.

20s16=Gland Size, E1FX=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

E1FWRM Ex “d” Cable Gland

Size	: 16mm to 90mm & ½" to 3½”	**Ingress Protection**	: IP66 as per EN 60529.
Standard	: EN60079-0:2012+A11:2013, En60079-1:2014, EN60079-31:2014	**Operating Temp.**	: -60°C to +125°C
		Material	: Brass CW614N/CW617N/EN12165, Stainless Steel 316L
Application	: For indoor & outdoor hazardous area use with all types of SWA cable providing flameproof seal on cable inner sheath and environmental seal on cable outer sheaths. Also provides mechanical retention & electrical continuity via armour wire termination with rotating rigid conduit connection facility.	**Thread**	: Metric, NPT, BSP, ET and PG
		Cable Type	: Single Wire Armoured (SWA) Cable
		Features	: Displacement Seal and Armoured Ring
		Seal Material	: LSOH Silicone Seal & LSOH Nylon Washer
ATEX Certificate No.	: TI16ATEX 671-3 X	**Accessories**	: PVC Shroud, Earth Tag, Thread Seal, Serrated Washer
Code of Protection	: **Ex db IIC Gb, Ex tb IIIC Db**		



Gland Selection Chart

Size	Standard Entry Thread "C"				Entry Thread Length"D"		Entry Optional Thread "C"		Armoured Wire Diameter for W type		Cable Dia.				Standard Connection Thread "F"		
	Metric	NPT/BSP	ET	PG	Metric	NPT	Metric	NPT			Bedding Dia."A"		Overall Dia."B"				
									Min.	Max.	Min.	Max.	Min.	Max.	Metric	NPT	BSP(G)
20s16	M20x1.5	½”	¾”	PG 11	15.00	15.00	M25x1.5	¾”	0.90	0.90	3.10	8.60	6.10	13.10	M20x1.5	½”	½”
20s	M20x1.5	½”	¾”	PG13.5	15.00	15.00	M25x1.5	¾”	0.90	1.25	6.20	11.70	9.50	15.90	M20x1.5	½”	½”
20	M20x1.5	½”	¾"	PG 16	15.00	15.00	M25x1.5	¾”	0.90	1.25	6.50	13.90	12.50	20.90	M20x1.5	½”	½”
25	M25x1.5	¾"	1"	PG 21	15.00	15.00	M32x1.5	1"	1.25	1.60	11.30	19.90	19.90	26.20	M25x1.5	¾"	¾"
32	M32x1.5	1"	1¼"	PG 29	15.00	15.00	M40x1.5	1¼"	1.60	2.00	17.00	26.20	23.70	33.90	M32x1.5	1"	1"
40	M40x1.5	1¼"	1½"	PG 36	15.00	15.00	M50x1.5	1½"	1.60	2.00	23.60	32.10	27.90	40.40	M40x1.5	1¼"	1¼"
50s	M50x1.5	1½"	2"	PG 36	15.00	15.00	M63x1.5	2"	2.00	2.50	31.50	38.20	35.20	46.70	M50x1.5	1½”	1½”
50	M50x1.5	2"	2"	PG 42	15.00	15.00	M63x1.5	2½”	2.00	2.50	35.80	44.00	40.40	53.00	M50x1.5	1½”	1½”
63s	M63x1.5	2"	2½"	PG 48	15.00	15.00	M75x1.5	2½”	2.00	2.50	41.70	50.00	45.60	59.40	M63x1.5	2"	2"
63	M63x1.5	2½"	2½"	-	15.00	15.00	M75x1.5	3"	2.00	2.50	47.50	56.00	54.60	65.80	M63x1.5	2"	2"
75s	M75x1.5	2½"	3"	-	15.00	15.00	M90x1.5	3"	2.00	2.50	55.00	62.00	59.00	72.00	M75x1.5	2½”	2½”
75	M75x1.5	3"	3"	-	15.00	15.00	M90x1.5	3½”	2.50	3.00	62.00	68.00	66.70	78.40	M75x1.5	2½”	2½”
90	M90x1.5	3½"	3½"	-	18.00	18.00	M100x1.5	4"	3.00	3.50	67.00	79.00	76.20	90.30	M90x1.5	3"	3"

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	E1FWRM	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

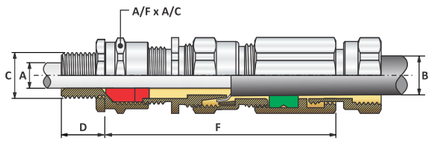
How to Order ?

Item Code: 20s16E1FWRM1 11 PS 5
Code Meaning: Brass E1FWRM 20s16 Cable Gland.

20s16=Gland Size, E1FWRM=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

E1FWRF Ex “d” Cable Gland

Size	: 16mm to 90mm & ½" to 3½”	**Ingress Protection**	: IP66 as per EN 60529.
Standard	: EN60079-0:2012+A11:2013, EN60079-1:2014, EN60079-31:2014	**Operating Temp.**	: -60°C to +125°C
Application	: For indoor & outdoor hazardous area use with all types of SWA cable providing flameproof seal on cable inner sheath and environmental seal on cable outer sheaths. Also provides mechanical retention & electrical continuity via armour wire termination with rotating rigid conduit connection facility.	**Material**	: Brass CW614N/CW617N/EN12165, Stainless Steel 316L
		Thread	: Metric, NPT, BSP, ET and PG
		Cable Type	: Single Wire Armoured (SWA) Cable
		Features	: Displacement Seal and Armoured Ring
		Seal Material	: LSOH Silicone Seal & LSOH Nylon Washer
		Accessories	: PVC Shroud, Earth Tag, Thread Seal, Serrated Washer
ATEX Certificate No.	: TI16ATEX 671-3 X		
Code of Protection	: **Ex db IIC Gb, Ex tb IIIC Db**		



Gland Selection Chart

Size	Standard Entry Thread "C"				Entry Thread Length"D"		Entry Optional Thread "C"		Armoured Wire Diameter for W type		Cable Dia.				Standard Connection Thread "F"		
											Bedding Dia."A"		Overall Dia."B"				
	Metric	NPT/BSP	ET	PG	Metric	NPT	Metric	NPT	Min.	Max.	Min.	Max.	Min.	Max.	Metric	NPT	BSP(G)
20s16	M20x1.5	½"	¾”	PG 11	15.00	15.00	M25x1.5	¾”	0.90	0.90	3.10	8.60	6.10	13.10	M20x1.5	½"	½"
20s	M20x1.5	½”	¾”	PG 13.5	15.00	15.00	M25x1.5	¾”	0.90	1.25	6.20	11.70	9.50	15.90	M20x1.5	½"	½"
20	M20x1.5	½”	¾”	PG 16	15.00	15.00	M25x1.5	¾"	0.90	1.25	6.50	13.90	12.50	20.90	M20x1.5	½"	½"
25	M25x1.5	¾"	1"	PG 21	15.00	15.00	M32x1.5	1"	1.25	1.60	11.30	19.90	19.90	26.20	M25x1.5	¾"	¾"
32	M32x1.5	1"	1¼”	PG 29	15.00	15.00	M40x1.5	1¼"	1.60	2.00	17.00	26.20	23.70	33.90	M32x1.5	1"	1"
40	M40x1.5	1¼"	1½”	PG 36	15.00	15.00	M50x1.5	1½”	1.60	2.00	23.60	32.10	27.90	40.40	M40x1.5	1¼"	1¼"
50s	M50x1.5	1½"	2"	PG 36	15.00	15.00	M63x1.5	2"	2.00	2.50	31.50	38.20	35.20	46.70	M50x1.5	1½”	1½”
50	M50x1.5	2"	2"	PG 42	15.00	15.00	M63x1.5	2½”	2.00	2.50	35.80	44.00	40.40	53.00	M50x1.5	1½”	1½”
63s	M63x1.5	2"	2½”	PG 48	15.00	15.00	M75x1.5	2½”	2.00	2.50	41.70	50.00	45.60	59.40	M63x1.5	2"	2"
63	M63x1.5	2½”	2½”	-	15.00	15.00	M75x1.5	3"	2.00	2.50	47.50	56.00	54.60	65.80	M63x1.5	2"	2"
75s	M75x1.5	2½”	3"	-	15.00	15.00	M90x1.5	3"	2.00	2.50	55.00	62.00	59.00	72.00	M75x1.5	2½”	2½”
75	M75x1.5	3"	3"	-	15.00	15.00	M90x1.5	3½"	2.50	3.00	62.00	68.00	66.70	78.40	M75x1.5	2½”	2½”
90	M90x1.5	3½”	3½”	-	18.00	18.00	M100x1.5	4"	3.00	3.50	67.00	79.00	76.20	90.30	M90x1.5	3"	3"

Product Code For Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	E1FWRF	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

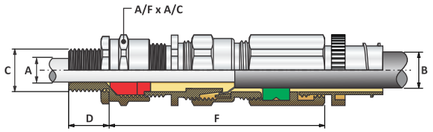
How to Order ?

Item Code: 20s16E1FWRF1 11 PS 5
Code Meaning: Brass E1FWRF 20s16 Cable Gland.

20s16=Gland Size, E1FWRF=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

E1FWFC Ex “d” Cable Gland

Size	: 16mm to 50mm & ½" to 1½”	**Ingress Protection**	: IP66 as per EN 60529.
Standard	: EN60079-0:2012+A11:2013, EN60079-1:2014, EN60079-31:2014	**Operating Temp.**	: -60°C to +125°C
Application	: For indoor & outdoor hazardous area use with all types of SWA cable providing flameproof seal on cable inner sheath and environmental seal on cable outer sheaths. Also provides mechanical retention & electrical continuity via armour wire termination with rotating flexible conduit connection facility.	**Material**	: Brass CW614N/CW617N/EN12165, Stainless Steel 316L
		Thread	: Metric, NPT, BSP, ET and PG
		Cable Type	: Single Wire Armoured (SWA) Cable
		Features	: Displacement Seal and Armoured Ring
		Seal Material	: LSOH Silicone Seal & LSOH Nylon Washer
		Accessories	: PVC Shroud, Earth Tag, Thread Seal Serrated Washer
ATEX Certificate No.	: TI16ATEX 671-3 X		
Code of Protection	: **Ex db IIC Gb, Ex tb IIIC Db**		



Gland Selection Chart

Size	Standard Entry Thread "C"				Entry Thread Length"D"		Entry Optional Thread "C"		Armoured Wire Diameter for W type		Cable Dia.				Ordering Reference		
											Bedding Dia."A"		Overall Dia."B"				
	Metric	NPT/BSP	ET	PG	Metric	NPT	Metric	NPT	Min.	Max.	Min.	Max.	Min.	Max.	Size	Type	Ordering Suffix
20s16	M20x1.5	½"	¾”	PG 11	15.00	15.00	M25x1.5	¾”	0.90	0.90	3.10	8.60	6.10	13.10	20s16	E1FWFC	A066
20s16	M20x1.5	½”	¾”	PG 11	15.00	15.00	M25x1.5	¾”	0.90	0.90	3.10	8.60	6.10	13.10	20s16	E1FWFC	A070
20s16	M20x1.5	½”	¾”	PG 11	15.00	15.00	M25x1.5	¾”	0.90	0.90	3.10	8.60	6.10	13.10	20s16	E1FWFC	A080
20s	M20x1.5	½”	¾”	PG 13.5	15.00	15.00	M25x1.5	¾”	0.90	1.25	6.20	11.70	9.50	15.90	20s	E1FWFC	A066
20s	M20x1.5	½”	¾”	PG 13.5	15.00	15.00	M25x1.5	¾”	0.90	1.25	6.20	11.70	9.50	15.90	20s	E1FWFC	A070
20s	M20x1.5	½”	¾”	PG 13.5	15.00	15.00	M25x1.5	¾”	0.90	1.25	6.20	11.70	9.50	15.90	20s	E1FWFC	A080
20	M20x1.5	½”	¾”	PG 16	15.00	15.00	M25x1.5	¾”	0.90	1.25	6.50	13.90	12.50	20.90	20	E1FWFC	A110
20	M20x1.5	½”	¾”	PG 16	15.00	15.00	M25x1.5	¾”	0.90	1.25	6.50	13.90	12.50	20.90	20	E1FWFC	A120
25	M25x1.5	¾"	1"	PG 21	15.00	15.00	M32x1.5	1"	1.25	1.60	11.30	19.90	19.90	26.20	25	E1FWFC	A250
25	M25x1.5	¾”	1"	PG 21	15.00	15.00	M32x1.5	1"	1.25	1.60	11.30	19.90	19.90	26.20	25	E1FWFC	A280
32	M32x1.5	1"	1¼"	PG 29	15.00	15.00	M40x1.5	1¼"	1.60	2.00	17.00	26.20	23.70	33.90	32	E1FWFC	A300
40	M40x1.5	1¼"	1½”	PG 36	15.00	15.00	M50x1.5	1½"	1.60	2.00	23.60	32.10	27.90	40.40	40	E1FWFC	A450
40	M40x1.5	1¼"	1½”	PG 36	15.00	15.00	M50x1.5	1½”	1.60	2.00	23.60	32.10	27.90	40.40	40	E1FWFC	A500
50s	M50x1.5	1½”	2"	PG 36	15.00	15.00	M63x1.5	2"	2.00	2.50	31.50	38.20	35.20	46.70	50s	E1FWFC	A550

Product Code For Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	E1FWFC	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

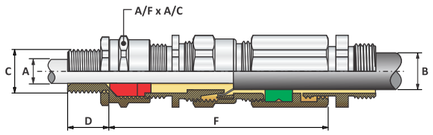
How to Order ?

Item Code: 20s16E1FWFC1 11 PS 5
Code Meaning: Brass E1FWFC 20s16 Cable Gland.

20s16=Gland Size, E1FWFC=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

E1FXRM Ex “d” Cable Gland

Size	: 16mm to 90mm & ½" to 3½”	**Operating Temp.**	: -60°C to +125°C
Standard	: EN60079-0:2012+A11:2013, EN60079-1:2014, EN60079-31:2014	**Material**	: Brass CW614N/CW617N/EN12165, Stainless Steel 316L
Application	: For indoor & outdoor hazardous area use with all types of SWA cable providing flameproof seal on cable inner sheath and environmental seal on cable outer sheaths. Also provides mechanical retention & electrical continuity via armour wire termination with rotating rigid conduit connection facility.	**Thread**	: Metric, NPT, BSP, ET and PG
		Cable Type	: Wire Braid Armour, Screened Flexible Wire Braid (CY/SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA)
		Features	: Displacement Seal and Armoured Ring
		Seal Material	: LSOH Silicone Seal & LSOH Nylon Washer
		Accessories	: PVC Shroud, Earth Tag, Thread Seal, Serrated Washer
ATEX Certificate No.	: TI16ATEX 671-3 X		
Code of Protection	: **Ex db IIC Gb, Ex tb IIIC Db**		
Ingress Protection	: IP66 as per EN 60529.		



Gland Selection Chart

Size	Standard Entry Thread "C"				Entry Thread Length"D"		Entry Optional Thread "C"		Armoured Wire Diameter for X Type		Cable Dia.				Standard Connection Thread "F"		
											Bedding Dia."A"		Overall Dia."B"				
	Metric	NPT/BSP	ET	PG	Metric	NPT	Metric	NPT	Min.	Max.	Min.	Max.	Min.	Max.	Metric	NPT	BSP(G)
20s16	M20x1.5	½"	¾"	PG	15.00	15.00	M25x1.5	¾"	0.30	1.00	3.10	8.60	6.10	13.10	M20x1.5	½"	½"
20s	M20x1.5	½"	¾"	PG 11	15.00	15.00	M25x1.5	¾"	0.30	1.00	6.20	11.70	9.50	15.90	M20x1.5	½"	½"
20	M20x1.5	½"	¾"	PG 13.5	15.00	15.00	M25x1.5	¾"	0.40	1.00	6.50	13.90	12.50	20.90	M20x1.5	½"	½"
25	M25x1.5	¾"	1"	PG 16	15.00	15.00	M32x1.5	1"	0.40	1.20	11.30	19.90	19.90	26.20	M25x1.5	¾"	¾"
32	M32x1.5	1"	1¼"	PG 21	15.00	15.00	M40x1.5	1¼"	0.40	1.20	17.00	26.20	23.70	33.90	M32x1.5	1"	1"
40	M40x1.5	1¼"	1½"	PG 29	15.00	15.00	M50x1.5	1½"	0.40	1.60	23.60	32.10	27.90	40.40	M40x1.5	1¼"	1¼"
50s	M50x1.5	1½"	2"	PG 36	15.00	15.00	M63x1.5	2"	0.40	1.60	31.50	38.20	35.20	46.70	M50x1.5	1½"	1½"
50	M50x1.5	2"	2"	PG 36	15.00	15.00	M63x1.5	2½"	0.60	1.60	35.80	44.00	40.40	53.00	M50x1.5	1½"	1½"
63s	M63x1.5	2"	2½"	PG 42	15.00	15.00	M75x1.5	2½"	0.60	1.60	41.70	50.00	45.60	59.40	M63x1.5	2"	2"
63	M63x1.5	2½"	2½"	PG 48	15.00	15.00	M75x1.5	3"	0.60	1.60	47.50	56.00	54.60	65.80	M63x1.5	2"	2"
75s	M75x1.5	2½"	3"	-	15.00	15.00	M90x1.5	3"	0.60	1.60	55.00	62.00	59.00	72.00	M75x1.5	2½"	2½"
75	M75x1.5	3"	3"	-	15.00	15.00	M90x1.5	3½"	0.60	1.60	62.00	68.00	66.70	78.40	M75x1.5	2½"	2½"
90	M90x1.5	3½"	3½"	-	18.00	18.00	M100x1.5	4"	0.80	1.00	67.00	79.00	76.20	90.30	M90x1.5	3"	3"

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	E1FXRM	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

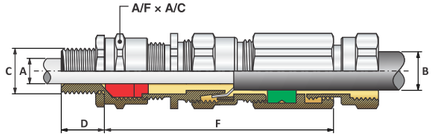
How to Order ?

Item Code: 20s16E1FXRM1 11 PS 5
Code Meaning: Brass E1FXRM 20s16 Cable Gland.

20s16=Gland Size, E1FXRM=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

E1FXRF Ex “d” Cable Gland

Size	: 16mm to 90mm & ½" to 3½”	**Operating Temp.**	: -60°C to +125°C
Standard	: EN60079-0:2012+A11:2013, EN60079-1:2014, EN60079-31:2014	**Material**	: Brass CW614N/CW617N/EN12165, Stainless Steel 316L
Application	: For indoor & outdoor hazardous area use with all types of SWA cable providing flameproof seal on cable inner sheath and environmental seal on cable outer sheaths. Also provides mechanical retention & electrical continuity via armour wire termination with rotating rigid conduit connection facility.	**Thread**	: Metric, NPT, BSP, ET and PG
		Cable Type	: Wire Braid Armour, Screened Flexible Wire Braid (CY/SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA)
		Features	: Displacement Seal and Armoured Ring
		Seal Material	: LSOH Silicone Seal & LSOH Nylon Washer
		Accessories	: PVC Shroud, Earth Tag, Thread Seal, Serrated Washer
ATEX Certificate No.	: TI16ATEX 671-3 X		
Code of Protection	: **Ex db IIC Gb, Ex tb IIIC Db**		
Ingress Protection	: IP66 as per EN 60529.		



Gland Selection Chart

Size	Standard Entry Thread "C"				Entry Thread Length"D"		Entry Optional Thread "C"		Armoured Wire Diameter for X		Cable Dia.				Standard Connection Thread "F"		
											Bedding Dia."A"		Overall Dia."B"				
	Metric	NPT/BSP	ET	PG	Metric	NPT	Metric	NPT	Min.	Max.	Min.	Max.	Min.	Max.	Metric	NPT	BSP(G)
20s16	M20x1.5	½"	¾"	PG 11	15.00	15.00	M25x1.5	¾"	0.30	1.00	3.10	8.60	6.10	13.10	M20x1.5	½"	½"
20s	M20x1.5	½"	¾"	PG 13.5	15.00	15.00	M25x1.5	¾"	0.30	1.00	6.20	11.70	9.50	15.90	M20x1.5	½"	½"
20	M20x1.5	½"	¾"	PG 16	15.00	15.00	M25x1.5	¾"	0.40	1.00	6.50	13.90	12.50	20.90	M20x1.5	½"	½"
25	M25x1.5	¾"	1"	PG 21	15.00	15.00	M32x1.5	1"	0.40	1.20	11.30	19.90	19.90	26.20	M25x1.5	¾"	¾"
32	M32x1.5	1"	1¼"	PG 29	15.00	15.00	M40x1.5	1¼"	0.40	1.20	17.00	26.20	23.70	33.90	M32x1.5	1"	1"
40	M40x1.5	1¼"	1½"	PG 36	15.00	15.00	M50x1.5	1½"	0.40	1.60	23.60	32.10	27.90	40.40	M40x1.5	1¼"	1¼"
50s	M50x1.5	1½"	2"	PG 36	15.00	15.00	M63x1.5	2"	0.40	1.60	31.50	38.20	35.20	46.70	M50x1.5	1½"	1½"
50	M50x1.5	2"	2"	PG 42	15.00	15.00	M63x1.5	2½"	0.60	1.60	35.80	44.00	40.40	53.00	M50x1.5	1½"	1½"
63s	M63x1.5	2"	2½"	PG 48	15.00	15.00	M75x1.5	2½"	0.60	1.60	41.70	50.00	45.60	59.40	M63x1.5	2"	2"
63	M63x1.5	2½"	2½"	-	15.00	15.00	M75x1.5	3"	0.60	1.60	47.50	56.00	54.60	65.80	M63x1.5	2"	2"
75s	M75x1.5	2½"	3"	-	15.00	15.00	M90x1.5	3"	0.60	1.60	55.00	62.00	59.00	72.00	M75x1.5	2½"	2½"
75	M75x1.5	3"	3"	-	15.00	15.00	M90x1.5	3½"	0.60	1.60	62.00	68.00	66.70	78.40	M75x1.5	2½"	2½"
90	M90x1.5	3½"	3½"	-	18.00	18.00	M100x1.5	4"	0.80	1.60	67.00	79.00	76.20	90.30	M90x1.5	3"	3"

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	E1FXRF	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

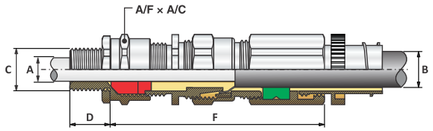
How to Order ?

Item Code: 20s16E1FXRF1 11 PS 5
Code Meaning: Brass E1FXRF 20s16 Cable Gland.

20s16=Gland Size, E1FXRF=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

E1FXFC Ex “d” Cable Gland

Size : 16mm to 50mm & ½" to 1½”
Standard : EN60079-0:2012+A11:2013, EN60079-1:2014, EN60079-31:2014
Application : For indoor & outdoor hazardous area use with all types of SWA cable providing flameproof seal on cable inner sheath and environmental seal on cable outer sheaths. Also provides mechanical retention & electrical continuity via armour wire termination with rotating flexible conduit connection facility.
ATEX Certificate No. : TI16ATEX 671-3 X
Code of Protection : **Ex db IIC Gb, Ex tb IIIC Db**
Ingress Protection : IP66 as per EN 60529.
Operating Temp. : -60°C to +125°C
Material : Brass CW614N/CW617N/EN12165, Stainless Steel 316L
Thread : Metric, NPT, BSP, ET and PG
Cable Type : Wire Braid Armour, Screened Flexible Wire Braid (CY/SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA)
Features : Displacement Seal and Armoured Ring
Seal Material : LSOH Silicone Seal & LSOH Nylon Washer
Accessories : PVC Shroud, Earth Tag, Thread Seal, Serrated Washer



Gland Selection Chart

Size	Standard Entry Thread "C"				Entry Thread Length"D"		Entry Optional Thread "C"		Armoured Wire Diameter for X type		Cable Dia.				Ordering Reference		
											Bedding Dia."A"		Overall Dia."B"				
	Metric	NPT/BSP	ET	PG	Metric	NPT	Metric	NPT	Min.	Max	Min.	Max.	Min.	Max.	Size	Type	Ordering Suffix
20s16	M20x1.5	½”	¾”	PG 11	15.00	15.00	M25x1.5	¾”	0.30	1.00	3.10	8.60	6.10	13.10	20s16	E1FXFC	A070
20s16	M20x1.5	½”	¾”	PG 11	15.00	15.00	M25x1.5	¾”	0.30	1.00	3.10	8.60	6.10	13.10	20s16	E1FXFC	A080
20s	M20x1.5	½”	¾”	PG 13.5	15.00	15.00	M25x1.5	¾”	0.30	1.00	6.20	11.70	9.50	15.90	20s	E1FXFC	A066
20s	M20x1.5	½”	¾”	PG 13.5	15.00	15.00	M25x1.5	¾”	0.30	1.00	6.20	11.70	9.50	15.90	20s	E1FXFC	A070
20s	M20x1.5	½”	¾”	PG 13.5	15.00	15.00	M25x1.5	¾”	0.30	1.00	6.20	11.70	9.50	15.90	20s	E1FXFC	A080
20	M20x1.5	½”	¾”	PG 16	15.00	15.00	M25x1.5	¾”	0.40	1.00	6.50	13.90	12.50	20.90	20	E1FXFC	A110
20	M20x1.5	½”	¾”	PG 16	15.00	15.00	M25x1.5	¾”	0.40	1.00	6.50	13.90	12.50	20.90	20	E1FXFC	A120
25	M25x1.5	¾"	1"	PG 21	15.00	15.00	M32x1.5	1"	0.40	1.20	11.30	19.90	19.90	26.20	25	E1FXFC	A250
25	M25x1.5	¾”	1"	PG 21	15.00	15.00	M32x1.5	1"	0.40	1.20	11.30	19.90	19.90	26.20	25	E1FXFC	A280
32	M32x1.5	1"	1¼"	PG 29	15.00	15.00	M40x1.5	1¼"	0.40	1.20	17.00	26.20	23.70	33.90	32	E1FXFC	A300
40	M40x1.5	1¼”	1½”	PG 36	15.00	15.00	M50x1.5	1½”	0.40	1.60	23.60	32.10	27.90	40.40	40	E1FXFC	A450
40	M40x1.5	1¼”	1½”	PG 36	15.00	15.00	M50x1.5	1½”	0.40	1.60	23.60	32.10	27.90	40.40	40	E1FXFC	A500
50s	M50x1.5	1½”	2"	PG 36	15.00	15.00	M63x1.5	2"	0.40	1.60	31.50	38.20	35.20	46.70	50s	E1FXFC	A550

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	E1FXFC	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

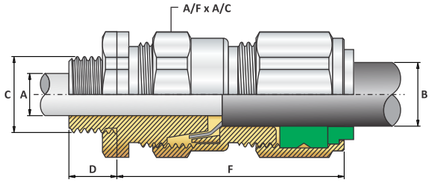
How to Order ?

Item Code: 20s16E1FXFC1 11 PS 5
Code Meaning: Brass E1FXFC 20s16 Cable Gland.

20s16=Gland Size, E1FXFC=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

CWe Ex “d” and Ex “e” Cable Gland

Size : 16mm to 90mm & ½" to 3½”
Standard : EN/IEC 60079-0:2012+A11:2013/2011, EN/IEC 60079-1:2014, EN/IEC 60079-7:2015, EN/IEC 60079-31:2014/2013
Function : Providing environmental seal on the cable outer sheath. Also provides mechanical cable retention & electrical continuity via armoured wire termination in indoor and outdoor hazardous area with all types of SWA cable.
IECEx Certificate No. : IECEx ITS 16.0041X
ATEX Certificate No. : ITS16ATEX100935X
Code of Protection : **Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db**
Ingress Protection : IP67 as per EN 60529.
Operating Temp. : -60°C to +125°C
Material : Brass CW614N/CW617N/EN12165, Stainless Steel 316L
Thread : Metric, NPT, BSP, ET and PG
Cable Type : Single Wire Armoured (SWA) Cable
Seal Material : LSOH Silicone Seal & LSOH Nylon Washer
Features : Outer Compression Seal and Armoured Ring
Accessories : PVC Shroud, Earth Tag, Thread Seal, Adaptor & Reducer



Gland Selection Chart

Size	Standard Thread Size “C”				Optional Thread		Thread Length “D”	Cable Dia. “A” Max.	Cable Dia. “B”		Armour Wire Dia.	Protrusion Length “F”	A/F	A/C
	Metric	NPT/BSP	ET	PG	Metric	NPT			Min.	Max.				
20s16	20	½”	¾”	PG11	25	¾”	15.00	8.60	6.10	13.10	0.90	59.15	24.00	26.20
20S	20	½”	¾”	PG13.5	25	¾”	15.00	11.70	9.50	15.90	0.9-1.25	59.15	24.00	26.20
20	20	½”	¾”	PG16	25	¾”	15.00	13.90	12.50	20.90	0.9-1.25	62.15	30.00	33.00
25	25	¾”	1"	PG21	32	1"	15.00	19.90	19.90	26.20	1.25-1.60	68.85	36.00	39.20
32	32	1"	1¼”	PG29	40	1¼”	15.00	23.70	23.70	33.90	1.60-2.00	69.30	46.00	50.60
40	40	1¼”	1½”	PG36	50	1½”	15.00	32.10	27.90	40.40	1.60-2.00	71.90	55.00	60.00
50S	50	1½”	2"	PG36	63	2"	15.00	38.20	35.20	46.70	2.00-2.50	70.75	60.00	65.00
50	50	2"	2"	PG42	63	2½”	15.00	44.00	40.40	53.00	2.00-2.50	70.00	70.00	75.00
63S	63	2"	2½”	PG48	75	2½”	15.00	50.00	45.60	59.40	2.00-2.50	72.25	75.00	80.00
63	63	2½”	2½”	-	75	3”	15.00	56.00	54.60	65.80	2.00-2.50	74.75	80.00	85.00
75S	75	2½”	3"	-	90	3"	15.00	62.00	59.00	72.00	2.00-2.50	80.50	90.00	95.00
75	75	3"	3”	-	90	3½”	15.00	68.00	66.70	78.40	2.00-2.50	82.75	100.00	110.00
90	90	3½”	3 ½”	-	100	4”	18.00	79.00	76.20	90.30	3.00-3.50	95.00	112.00	122.00

Product Code for Ordering Purpose

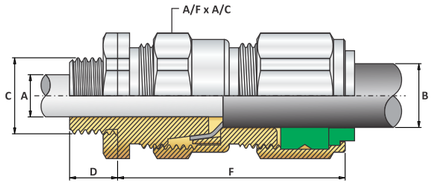
Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	CWe	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

How to Order ?

Item Code: 20s16CWe 1 11 PS 5
Code Meaning: Brass CWe 20s16 Cable Gland.

20s16=Gland Size, CWe=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

CXe Ex “d” and Ex “e” Cable Gland			
Size	: 16mm to 90mm & ½" to 3½”	**Ingress Protection**	: IP67 as per EN 60529.
Standard	: EN/IEC 60079-0:2012+A11:2013/2011, EN/IEC 60079-1:2014, EN/IEC 60079-7:2015, EN/IEC 60079-31:2014/2013	**Operating Temp.**	: -60°C to +125°C
		Material	: Brass CW614N/CW617N/EN12165, Stainless Steel 316L
Function	: Providing environmental seal on the cable outer sheath. Also provides mechanical cable retention & electrical continuity via armoured wire termination in indoor and outdoor hazardous area with all types of SWA cable.	**Thread**	: Metric, NPT, BSP, ET and PG
		Cable Type	: Wire Braid Armour, Screened Flexible Wire Braid (CY/SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA)
IECEx Certificate No.	: IECEx ITS 16.0041X	**Seal Material**	: LSOH Silicone Seal & LSOH Nylon Washer
ATEX Certificate No.	: ITS16ATEX100935X	**Features**	: Outer Compression Seal and Armoured Ring
Code of Protection	: **Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db**	**Accessories**	: PVC Shroud, Earth Tag, Thread Seal



Gland Selection Chart

Size	Standard Thread Size “C”				Optional Thread		Thread Length “D”	Cable Dia. “A” Max.	Cable Dia. “B”		Armour Wire Dia	Protrusion Length “F”	A/F	A/C
	Metric	NPT/BSP	ET	PG	Metric	NPT			Min.	Max.				
20s16	20	½”	¾”	PG11	25	¾”	15.00	8.60	6.10	13.10	0.3-1.0	59.15	24.00	26.20
20S	20	½”	¾”	PG13.5	25	¾”	15.00	11.70	9.50	15.90	0.3-1.0	59.15	24.00	26.20
20	20	½”	¾”	PG16	25	¾”	15.00	13.90	12.50	20.90	0.4-1.0	62.15	30.00	33.00
25	25	¾”	1"	PG21	32	1"	15.00	19.90	19.90	26.20	0.4-1.2	68.85	36.00	39.20
32	32	1"	1¼”	PG29	40	1¼”	15.00	23.70	23.70	33.90	0.4-1.2	69.30	46.00	50.60
40	40	1¼”	1½”	PG36	50	1½”	15.00	32.10	27.90	40.40	0.4-1.6	71.90	55.00	60.00
50S	50	1½”	2"	PG36	63	2"	15.00	38.20	35.20	46.70	0.4-1.6	70.75	60.00	65.00
50	50	2"	2"	PG42	63	2 ½”	15.00	44.00	40.40	53.00	0.6-1.6	70.00	70.00	75.00
63S	63	2"	2½”	PG48	75	2½”	15.00	50.00	45.60	59.40	0.6-1.6	72.25	75.00	80.00
63	63	2½”	2½”	-	75	3”	15.00	56.00	54.60	65.80	0.6-1.6	74.75	80.00	85.00
75S	75	2½”	3"	-	90	3"	15.00	62.00	59.00	72.00	0.6-1.6	80.50	90.00	95.00
75	75	3"	3”	-	90	3½”	15.00	68.00	66.70	78.40	0.6-1.6	82.75	100.00	110.00
90	90	3½”	3 ½”	-	100	4”	18.00	79.00	76.20	90.30	0.8-1.6	95.00	112.00	122.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	CXe	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	ET Thread-13	LSF Shroud-LS	Serrated Washer-7
			PG Thread-14	LSOH Shroud-SL	
			BSP Thread-15		
			Optional Metric-16		
			Optional NPT-17		

How to Order ?	
Item Code: 20s16CXe 1 11 PS 5 **Code Meaning:** Brass CXe 20s16 Cable Gland.	20s16=Gland Size, CXe=Gland Code, 1= With Brass Material, 11=With Standard Metric Thread, PS= With PVC Shroud, 5=With Steel Lock Nut.

CABTEK
electrical accessories

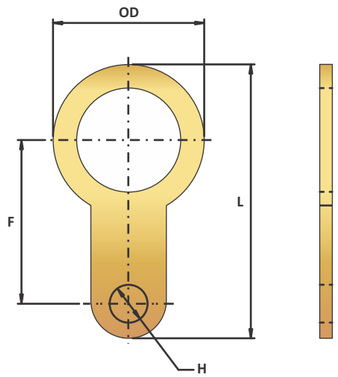
Ex

Cable Gland Accessories

Earth Tag

Size : M16 to M100 and ½" NPT to 3½" NPT
Standard : BS 6121:Part 5:1993
Material : Brass BS2870 and SS316L
Application : Earth Tags are used between cable gland entry and equipment to provide earth bound connection. Earth Tag produces earth bound connection for electricity.

Optional : Earth Tags are also available in different plating like Nickel, Chrome, Tin. We are also able to supply Earth Tag with or without screw and washer.

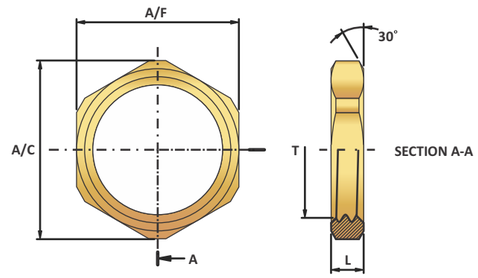


Earth Tag Specification

Size	"OD"	"L"	Nominal Centers "F"	For Screw "H"	Without Screw "H"	Code for Brass		Code for Nickel Plated Brass		Code for SS Earth Tag without Screw
						with Screw	without Screw	with Screw	without Screw	
M16	24.00	43.50	26.00	M6	5.75	CETM111	CETM11	CETMNP111	CETMNP11	CETMS11
M20	27.50	48.00	28.25	M6	5.75	CETM112	CETM12	CETMNP112	CETMNP12	CETMS12
M25	34.00	57.00	33.50	M6	5.75	CETM113	CETM13	CETMNP113	CETMNP13	CETMS13
M32	43.00	67.00	39.00	M6	5.75	CETM114	CETM14	CETMNP114	CETMNP14	CETMS14
M40	52.00	77.00	44.00	M6	5.75	CETM115	CETM15	CETMNP115	CETMNP15	CETMS15
M50	63.00	90.00	51.00	M6	5.75	CETM116	CETM16	CETMNP116	CETMNP16	CETMS16
M63	78.00	114.00	65.00	M6	5.75	CETM117	CETM17	CETMNP117	CETMNP17	CETMS17
M75	93.00	131.00	74.00	M6	5.75	CETM118	CETM18	CETMNP118	CETMNP18	CETMS18
M90	111.00	158.00	88.00	M6	5.75	CETM119	CETM19	CETMNP119	CETMNP19	CETMS19
M100	122.00	189.00	113.50	M6	5.75	CETM120	CETM20	CETMNP120	CETMNP20	CETMS20
½" NPT	27.50	48.00	28.25	M6	5.75	CETM121	CETM21	CETMNP121	CETMNP21	CETMS21
¾" NPT	34.00	57.00	33.50	M6	5.75	CETM122	CETM22	CETMNP122	CETMNP22	CETMS22
1" NPT	43.00	67.00	39.00	M6	5.75	CETM123	CETM23	CETMNP123	CETMNP23	CETMS23
1¼" NPT	52.00	77.00	44.00	M6	5.75	CETM124	CETM24	CETMNP124	CETMNP24	CETMS24
1½" NPT	63.00	90.00	51.00	M6	5.75	CETM125	CETM25	CETMNP125	CETMNP25	CETMS25
2" NPT	78.00	114.00	65.00	M6	5.75	CETM126	CETM26	CETMNP126	CETMNP26	CETMS26
2½" NPT	93.00	131.00	74.00	M6	5.75	CETM127	CETM27	CETMNP127	CETMNP27	CETMS27
3" NPT	111.00	158.00	88.00	M6	5.75	CETM128	CETM28	CETMNP128	CETMNP28	CETMS28

Lock Nut

Lock Nut is generally used to secure a cable gland, reducer, and adaptor in position at the equipment and enclosure. Lock Nuts are widely used in electrical installation due to low corrosion effect.



Metric Lock Nut

Brass Code	Nickel Plated Brass Code	Steel Code	SIZE	A/F	A/C	L	T
CBMLN16	CBNMLN16	CSMLN16	M16	20.00	22.00	4.00	M16×1.5
CBMLN20	CBNMLN20	CSMLN20	M20	24.00	26.20	4.00	M20×1.5
CBMLN25	CBNMLN25	CSMLN25	M25	30.00	33.00	4.00	M25×1.5
CBMLN32	CBNMLN32	CSMLN32	M32	36.00	39.20	4.25	M32×1.5
CBMLN40	CBNMLN40	CSMLN40	M40	45.00	50.00	4.50	M40×1.5
CBMLN50	CBNMLN50	CSMLN50	M50	55.00	60.00	5.00	M50×1.5
CBMLN63	CBNMLN63	CSMLN63	M63	68.00	73.00	5.50	M63×1.5
CBMLN75	CBNMLN75	CSMLN75	M75	81.00	88.00	6.00	M75×1.5
CBMLN82	CBNMLN82	CSMLN82	M82	90.00	98.00	6.00	M82×1.5
CBMLN90	CBNMLN90	CSMLN90	M90	100.00	110.00	6.50	M90×1.5
CBMLN100	CBNMLN100	CSMLN100	M100	110.00	120.00	7.00	M100×1.5
CBMLN110	CBNMLN110	CSMLN110	M110	122.00	135.00	7.50	M110×1.5
CBMLN115	CBNMLN115	CSMLN115	M115	128.00	140.00	7.50	M115×1.5
CBMLN125	CBNMLN125	CSMLN125	M125	138.00	149.00	7.50	M125×1.5

NPT Lock Nut

Brass Code	Nickel Plated Brass Code	Steel Code	SIZE	A/F	A/C	L	T
CBNLN12	CBNNLN12	CSNLN12	½"	27.00	30.00	5.00	½" NPS
CBNLN34	CBNNLN34	CSNLN34	¾"	33.00	36.25	4.75	¾" NPS
CBNLN100	CBNNLN100	CSNLN100	1"	41.00	45.00	4.75	1" NPS
CBNLN114	CBNNLN114	CSNLN114	1¼"	50.00	55.00	4.75	1¼" NPS
CBNLN112	CBNNLN112	CSNLN112	1½"	60.00	66.00	5.00	1½" NPS
CBNLN200	CBNNLN200	CSNLN200	2"	70.00	77.00	5.00	2" NPS
CBNLN212	CBNNLN212	CSNLN212	2½"	80.00	88.00	10.00	2½" NPS
CBNLN300	CBNNLN300	CSNLN300	3"	95.00	100.00	10.00	3" NPS
CBNLN312	CBNNLN312	CSNLN312	3½"	110.00	120.00	10.00	3½" NPS

continue...

BSP Lock Nut							
Brass Code	Nickel Plated Brass Code	Steel Code	SIZE	A/F	A/C	L	T
CBGLN12	CBNGLN12	CSGLN12	½"	24.00	26.20	4.00	½"G
CBGLN34	CBNGLN34	CSGLN34	¾"	30.00	34.00	4.00	¾"G
CBGLN100	CBNGLN100	CSGLN100	1"	36.00	39.20	4.25	1"G
CBGLN114	CBNGLN114	CSGLN114	1¼"	45.00	50.00	4.50	1¼"G
CBGLN112	CBNGLN112	CSGLN112	1½"	55.00	60.00	5.00	1½"G
CBGLN200	CBNGLN200	CSGLN200	2"	68.00	73.00	5.50	2"G
CBGLN212	CBNGLN212	CSGLN212	2½"	81.00	88.00	6.00	2½"G
CBGLN300	CBNGLN300	CSGLN300	3”	100.00	110.00	6.50	3"G
CBGLN312	CBNGLN312	CSGLN312	3½"	110.00	120.00	7.00	3½"G
CBGLN400	CBNGLN400	CSGLN400	4”	122.00	135.00	7.50	4"G

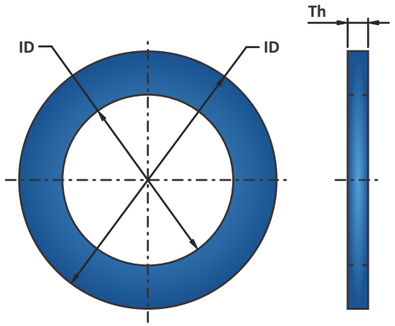
PG Lock Nut							
Brass Code	Nickel Plated Brass Code	Steel Code	SIZE	A/F	A/C	L	T
CBPLN70	CBNPLN70	CSPLN70	PG 7	15.00	16.50	3.50	PG 7
CBPLN90	CBNPLN90	CSPLN90	PG 9	18.00	20.00	3.50	PG 9
CBPLN11	CBNPLN11	CSPLN11	PG 11	21.00	23.00	3.50	PG 11
CBPLN13	CBNPLN13	CSPLN13	PG 13.5	24.00	26.20	4.00	PG 13.5
CBPLN16	CBNPLN16	CSPLN16	PG 16	26.00	28.60	4.00	PG 16
CBPLN21	CBNPLN21	CSPLN21	PG 21	31.00	35.00	4.00	PG 21
CBPLN29	CBNPLN29	CSPLN29	PG 29	41.00	46.00	4.25	PG 29
CBPLN36	CBNPLN36	CSPLN36	PG 36	51.00	56.50	5.00	PG 36
CBPLN42	CBNPLN42	CSPLN42	PG 42	60.00	65.00	5.50	PG 42
CBPLN48	CBNPLN48	CSPLN48	PG 48	65.00	70.00	6.00	PG 48

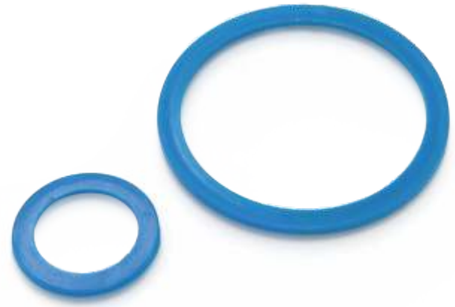
ET Lock Nut							
Brass Code	Nickel Plated Brass Code	Steel Code	SIZE	A/F	A/C	L	T
CBELN58	CBNELN58	CSELN58	ET 5/8	20.00	22.00	3.50	ET ⅝
CBELN34	CBNELN34	CSELN34	ET 3/4	24.00	26.20	3.50	ET ¾
CBELN10	CBNELN10	CSELN10	ET 1	30.00	33.00	3.50	ET 1
CBELN114	CBNELN114	CSELN114	ET 1 1/4	35.00	40.00	4.00	ET 1¼
CBELN112	CBNELN112	CSELN112	ET 1 1/2	41.00	46.00	4.00	ET 1½
CBELN20	CBNELN20	CSELN20	ET 2	55.00	60.00	4.00	ET 2
CBELN212	CBNELN212	CSELN212	ET 2 1/2	67.50	72.00	4.25	ET 2½
CBELN30	CBNELN30	CSELN30	ET 3	77.00	82.00	4.50	ET 3
CBELN312	CBNELN312	CSELN312	ET 3.1/2"	95.00	100.00	5.00	ET 3½

Thread Seal

Thread seal are used to maintain IP rating between cable gland and enclosure. It is necessary to fit on entry thread of cable gland. For Explosion proof equipment, it is necessary to maintain the integrity of Ingress protection at which equipment has been rated.

Material : Nylon
Size : M16 to M100 & ½” to 3 ½” NPT
Standard : EN60529
Features :
1. Used for high vibration resistance due to positive equipment contact.
2. Excellent pretensioning.
3. Through proper radius selection, no splitting/cracking occurs during tightening.
4. Extensive application, flexibility and minimizes stocks.
5. Minimum Thickness of washer is 2mm



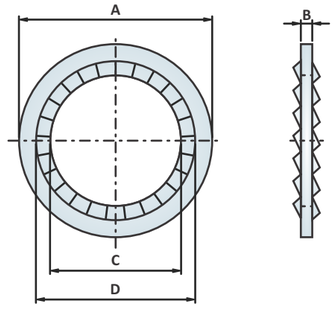


Code	SIZE	OD	ID	TH
CETS-16	M16	25.00	16.50	2.00
CETS-20	M20	30.00	20.20	2.00
CETS-25	M25	34.00	25.30	2.00
CETS-32	M32	44.00	32.50	2.00
CETS-40	M40	50.00	40.30	2.00
CETS-50	M50	63.00	50.50	2.00
CETS-63	M63	76.00	63.50	2.00
CETS-75	M75	95.00	75.50	2.00
CETS-90	M90	110.00	90.50	2.00
CETS-100	M100	125.00	100.50	2.00
CETS-012	½" NPT	30.00	21.50	2.00
CETS-034	¾" NPT	34.00	27.00	2.00
CETS-010	1" NPT	44.00	33.70	2.00
CETS-114	1¼" NPT	50.00	42.50	2.00
CETS-112	1½" NPT	63.00	48.50	2.00
CETS-200	2" NPT	76.00	60.60	2.00
CETS-212	2½" NPT	95.00	73.50	2.00
CETS-300	3" NPT	110.00	89.30	2.00
CETS-312	3½" NPT	125.00	102.00	2.00

Serrated Washer

Serrated washer also known as “Vibration Proof Washers”. Serrated washers have the unique feature of serrations on internal surfaces. When final flattening of the safety washer occurs with tightening of the screw, these serrations bite into the mating faces, thus preventing loosening of the screw, nut, bolt, etc due to vibration. Serrated washers are ready to fit washer to sustain preload and avoid loosening. Due to above feature of serrated washer are also used in cable gland accessories. Serrated Washers fitted internally to the equipment and before a locknut act as an anti-vibration device to prevent the cable gland or other cable entry device and locknut. Particularly required in situation where vibrating heavy machinery such as mud, shakers vibrating machine or pump, drilling.

Material : Steel 316L grade and also available in mild steel
Size : M16 to M100 & ½” to 4" NPT
Standard : DIN 6798J
Features :
1. Used for high vibration resistance due to positive equipment contact.
2. Excellent pretensioning.
3. Through proper radius selection, no splitting/ cracking occurs during tightening.
4. Extensive application, flexibility and minimizes stocks.



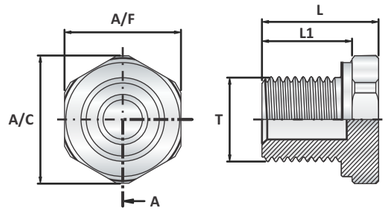
Code	Size	A	B	C	D	No. of Serrations	Serration Stand-off
CSW-16	M16	25.50	1.40	16.40	21.00	16.00	1.25
CSW-20	M20	32.50	1.40	20.40	26.00	16.00	1.25
CSW-25	M25	40.00	1.40	25.40	33.50	16.00	1.25
CSW-32	M32	43.50	1.40	32.40	38.50	18.00	1.25
CSW-40	M40	64.50	1.40	40.40	53.00	20.00	1.25
CSW-50	M50	80.00	1.40	50.40	67.00	30.00	1.25
CSW-63	M63	100.00	1.40	63.40	76.00	28.00	1.25
CSW-75	M75	112.00	1.60	75.40	90.00	28.00	1.25
CSW-90	M90	135.00	1.60	90.40	110.00	36.00	1.25
CSW-100	M100	145.00	1.60	100.40	125.00	32.00	1.25
CSW-115	M115	159.00	1.60	115.40	139.00	36.00	1.25
CSW-130	M130	185.00	1.60	130.40	156.00	40.00	1.25
CSW-012	½" NPT	32.50	1.40	22.00	26.00	16.00	1.25
CSW-034	¾" NPT	40.00	1.40	27.40	33.50	16.00	1.25
CSW010	1" NPT	43.50	1.40	34.10	38.50	16.00	1.25
CSW-114	1¼" NPT	64.50	1.40	42.90	53.00	20.00	1.25
CSW-112	1½" NPT	80.00	1.40	49.00	67.00	30.00	1.25
CSW200	2" NPT	100.00	1.40	61.00	76.00	28.00	1.25
CSW-212	2½" NPT	112.00	1.40	73.80	90.00	28.00	1.25
CSW-300	3" NPT	135.00	1.60	89.60	110.00	36.00	1.25
CSW-312	3½" NPT	145.00	1.60	102.30	125.00	32.00	1.25
CSW-400	4" NPT	159.00	1.60	115.00	139.20	36.00	1.25
CSW-500	5" NPT	185.00	1.60	142.00	165.00	40.00	1.25

Flameproof Ex “d” and Increased Safety Ex “e” Hexagonal Stop Plug

Stop Plugs / Blanking Elements are designed to seal or close any unused entries in Electrical enclosures, equipment, terminal boxes and junction boxes, etc. Stop Plugs are used to maintain integrity of enclosure and Ingress Protection (IP) rating of equipment is maintained with “O” ring or thread seal.

Stop Plugs are generally available in Brass, Nickel Plated Brass, Stainless Steel SS316L with Metric, NPT, ET, BSP and PG Thread.

IECEx Certificate No. : IECEx ITS 16.0041X
ATEX Certificate No. : ITS16ATEX100935X
Code of Protection : **Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db**
1. Suitable for use in : Zone 1, Zone 2, Zone 21 and Zone 22 applications.
2. Ingress Protection : IP67
3. Temperature : -60° C to +125°C



Hexagonal Stop Plug - Metric & NPT

Brass Code	Steel Code	Size	A/F	A/C	L1	L	T
BHSP-16	SHSP-16	16	22.00	23.50	15.00	22.00	M16x1.5
BHSP-20	SHSP-20	20	24.00	26.20	15.00	22.00	M20x1.5
BHSP-25	SHSP-25	25	30.00	33.00	15.00	22.00	M25x1.5
BHSP-32	SHSP-32	32	36.00	39.20	15.00	22.00	M32x1.5
BHSP-40	SHSP-40	40	46.00	50.60	15.00	22.00	M40x1.5
BHSP-50	SHSP-50	50	55.00	60.00	15.00	25.00	M50x1.5
BHSP-63	SHSP-63	63	70.00	75.00	15.00	25.00	M63x1.5
BHSP-75	SHSP-75	75	80.00	85.00	15.00	25.00	M75x1.5
BHSP-90	SHSP-90	90	95.00	100.00	20.00	30.00	M90x1.5
BHSP-100	SHSP-100	100	105.00	115.00	20.00	30.00	M100x1.5
BHSP-38N	SHSP-38N	⅜"	22.00	24.00	15.00	22.00	⅜" NPT
BHSP-12N	SHSP-12N	½"	24.00	26.20	15.00	22.00	½" NPT
BHSP-34N	SHSP-34N	¾"	30.00	33.00	15.00	22.00	¾" NPT
BHSP-1N	SHSP-1N	1"	36.00	39.30	15.00	22.00	1" NPT
BHSP-114N	SHSP-114N	1¼"	46.00	50.60	15.00	22.00	1¼" NPT
BHSP-112N	SHSP-112N	1½”	55.00	60.00	15.00	25.00	1½" NPT
BHSP-200N	SHSP-200N	2"	70.00	75.00	15.00	25.00	2" NPT
BHSP-212N	SHSP-212N	2½”	80.00	85.00	15.00	25.00	2½" NPT
BHSP-300N	SHSP-300N	3"	95.00	100.00	20.00	30.00	3" NPT
BHSP-312N	SHSP-312N	3½”	105.00	115.00	20.00	30.00	3½" NPT

Product Code for Ordering Purpose

Type	Size	Optional Thread Type	Material
HSP	16	ET Thread-13	Brass-1
		PG Thread-14	Stainless Steel-2
		BSP Thread-15	Nickel Plated-3

How to Order ?

Item Code: HSP-16 1 - HSP-38N 1 - HSP-5813 1 - HSP-3815 1 - HSP-714 1
Code Meaning: Brass M16 Hexagonal Stop Plug.
Brass 3/8” NPT Hexagonal Stop Plug. - Brass 5/8” ET Hexagonal Stop Plug.
Brass 3/8” BSP Hexagonal Stop Plug. - Brass PG7 Hexagonal Stop Plug.

HSP=Hexagonal Stop Plug, 16,38,58, 7=Plug Size,
1= With Brass Material N=NPT, 13=With ET thread,
15=With BSP thread, 14=With PG thread

continue...

Hexagonal Stop Plug -ET							
Brass Code	Steel Code	Size	A/F	A/C	L1	L	T
BHSP-5813	SHSP-5813	⅝"	22.00	23.50	15.00	22.00	ET ⅝"
BHSP-3413	SHSP-3413	¾"	24.00	26.20	15.00	22.00	ET ¾"
BHSP-1013	SHSP-1013	1"	30.00	33.00	15.00	22.00	ET 1"
BHSP-11413	SHSP-11413	1¼"	36.00	39.20	15.00	22.00	ET 1¼"
BHSP-11213	SHSP-11213	1½"	46.00	50.60	15.00	22.00	ET 1½"
BHSP-2013	SHSP-2013	2"	55.00	60.00	15.00	25.00	ET 2"
BHSP-21213	SHSP-21213	2½"	70.00	75.00	15.00	25.00	ET 2½"
BHSP-3013	SHSP-3013	3"	80.00	85.00	15.00	25.00	ET 3"
BHSP-31213	SHSP-31213	3½"	95.00	100.00	20.00	30.00	ET 3½"

Hexagonal Stop Plug -BSP							
Brass Code	Steel Code	Size	A/F	A/C	L1	L	T
BHSP-3815	SHSP-3815	⅜"	22.00	23.50	15.00	22.00	⅜" BSP
BHSP-1215	SHSP-1215	½"	24.00	26.20	15.00	22.00	½" BSP
BHSP-3415	SHSP-3415	¾"	30.00	33.00	15.00	22.00	¾" BSP
BHSP-1015	SHSP-1015	1"	36.00	39.20	15.00	22.00	1" BSP
BHSP-11415	SHSP-11415	1¼"	46.00	50.60	15.00	22.00	1¼" BSP
BHSP-11215	SHSP-11215	1½"	55.00	60.00	15.00	25.00	1½" BSP
BHSP-2015	SHSP-2015	2"	65.00	70.00	15.00	25.00	2" BSP
BHSP-21215	SHSP-21215	2½"	80.00	85.00	15.00	25.00	2½" BSP
BHSP-3015	SHSP-3015	3"	95.00	100.00	20.00	30.00	3" BSP
BHSP-31215	SHSP-31215	3½"	105.00	115.00	20.00	30.00	3½" BSP

Hexagonal Stop Plug -PG							
Brass Code	Steel Code	Size	A/F	A/C	L1	L	T
BHSP-714	SHSP-714	PG 7	20.00	22.00	15.00	22.00	PG 7
BHSP-914	SHSP-914	PG 9	22.00	23.50	15.00	22.00	PG9
BHSP-1114	SHSP-1114	PG 11	24.00	26.20	15.00	22.00	PG 11
BHSP-1314	SHSP-1314	PG 13.5	24.00	26.20	15.00	22.00	PG 13.5
BHSP-1614	SHSP-1614	PG 16	28.00	32.00	15.00	22.00	PG 16
BHSP-2114	SHSP-2114	PG 21	33.00	36.00	15.00	22.00	PG 21
BHSP-2914	SHSP-2914	PG 29	42.00	46.00	15.00	22.00	PG 29
BHSP-3614	SHSP-3614	PG 36	54.00	58.00	15.00	25.00	PG 36
BHSP-4214	SHSP-4214	PG 42	60.00	65.00	15.00	25.00	PG42
BHSP-4814	SHSP-4814	PG 48	65.00	70.00	15.00	25.00	PG 48

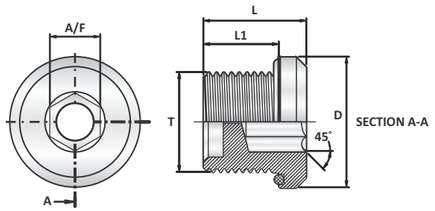
CABTEK electrical accessories

Flameproof Ex "d" and Increased Safety Ex "e" Allen Key Stop Plug

Stop Plugs / Blanking Elements are designed to seal or close any unused entries in Electrical enclosures, equipment, terminal boxes and junction boxes, etc. Stop Plugs are used to maintain integrity of enclosure and Ingress Protection (IP) rating of equipment is maintained with "O" ring or thread seal.

Stop Plugs are generally available in Brass, Nickel Plated Brass, Stainless Steel SS316L with Metric, NPT, ET, BSP and PG Thread.

IECEx Certificate No. : IECEx ITS 16.0041X
ATEX Certificate No. : ITS16ATEX100935X
Code of Protection : **Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db**
1. Suitable for use in : Zone 1, Zone 2, Zone 21 and Zone 22 applications.
2. Ingress Protection : IP67
3. Temperature : -60° C to +125°C



Allen Stop Plug - Metric & NPT							
Brass Code	Steel Code	Size	D	L1	L	A/F	T
BASP-16	SASP-16	16	26.00	15.00	20.00	8.00	M16x1.5
BASP-20	SASP-20	20	30.00	15.00	20.00	10.00	M20x1.5
BASP-25	SASP-25	25	36.00	15.00	20.00	10.00	M25x1.5
BASP-32	SASP-32	32	41.00	15.00	20.00	10.00	M32x1.5
BASP-40	SASP-40	40	48.00	15.00	20.00	10.00	M40x1.5
BASP-50	SASP-50	50	60.00	15.00	20.00	10.00	M50x1.5
BASP-63	SASP-63	63	73.00	20.00	29.00	10.00	M63x1.5
BASP-75	SASP-75	75	85.00	20.00	29.00	14.00	M75x1.5
BASP-90	SASP-90	90	100.00	20.00	30.00	14.00	M90x1.5
BASP-100	SASP-100	100	110.00	20.00	30.00	14.00	M100x1.5
BASP-38N	SASP-38N	⅜"	22.00	15.00	20.00	10.00	⅜" NPT
BASP-12N	SASP-12N	½"	26.00	15.00	20.00	10.00	½" NPT
BASP-34N	SASP-34N	¾"	30.00	15.00	20.00	10.00	¾" NPT
BASP-1N	SASP-1N	1"	36.00	15.00	20.00	10.00	1" NPT
BASP-114N	SASP-114N	1¼"	45.00	15.00	20.00	10.00	1¼" NPT
BASP-112N	SASP-112N	1½"	53.00	15.00	20.00	10.00	1½" NPT
BASP-200N	SASP-200N	2"	77.00	20.00	29.00	10.00	2" NPT
BASP-212N	SASP-212N	2½"	85.00	20.00	29.00	14.00	2½" NPT
BASP-300N	SASP-300N	3"	105.00	20.00	30.00	14.00	3" NPT
BASP-312N	SASP-312N	3½"	110.00	20.00	30.00	14.00	3½" NPT

Product Code for Ordering Purpose			
Type	Size	Optional Thread Type	Material
ASP	16	ET Thread-13	Brass-1
		PG Thread-14	Stainless Steel-2
		BSP Thread-15	Nickel Plated-3

How to Order ?

Item Code: HSP-16 1 - HSP-38N 1 - HSP-5813 1 - HSP-3815 1 - HSP-714 1
Code Meaning: Brass M16 Allen Stop Plug.
Brass 3/8" NPT Allen Stop Plug. - Brass 5/8" ET Allen Stop Plug.
Brass 3/8" BSP Allen Stop Plug. - Brass PG7 Allen Stop Plug.

ASP=Allen Stop Plug, 16,38,58,7=Plug Size,
1= With Brass Material N=NPT, 13=With ET thread,
15=With BSP thread, 14=With PG thread

continue...

Allen Stop Plug -ET							
Brass Code	Steel Code	Size	D	L1	L	A/F	T
BASP-5813	SASP-5813	⅝"	25.00	15.00	20.00	8.00	ET ⅝"
BASP-3413	SASP-3413	¾"	28.00	15.00	20.00	10.00	ET ¾"
BASP-1013	SASP-1013	1"	36.00	15.00	20.00	10.00	ET 1"
BASP-11413	SASP-11413	1¼"	41.00	15.00	20.00	10.00	ET 1¼"
BASP-11213	SASP-11213	1½"	48.00	15.00	20.00	10.00	ET 1½"
BASP-2013	SASP-2013	2"	60.00	15.00	20.00	10.00	ET 2"
BASP-21213	SASP-21213	2½"	73.00	20.00	29.00	10.00	ET 2½"
BASP-3013	SASP-3013	3"	85.00	20.00	29.00	14.00	ET 3"
BASP-31213	SASP-31213	3½"	98.00	20.00	30.00	14.00	ET 3½"

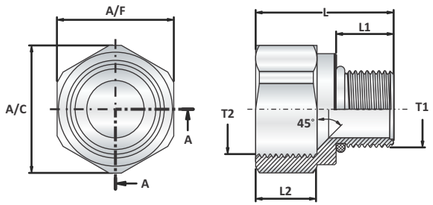
Allen Stop Plug -BSP							
Brass Code	Steel Code	Size	D	L1	L	A/F	T
BASP-3815	SASP-3815	⅜"	26.00	15.00	20.00	8.00	⅜" BSP
BASP-1215	SASP-1215	½"	30.00	15.00	20.00	10.00	½" BSP
BASP-3415	SASP-3415	¾"	36.00	15.00	20.00	10.00	¾" BSP
BASP-1015	SASP-1015	1"	41.00	15.00	20.00	10.00	1" BSP
BASP-11415	SASP-11415	1¼"	51.00	15.00	20.00	10.00	1¼" BSP
BASP-11215	SASP-11215	1½"	57.00	15.00	20.00	10.00	1½" BSP
BASP-2015	SASP-2015	2"	69.00	20.00	29.00	10.00	2" BSP
BASP-21215	SASP-21215	2½"	85.00	20.00	29.00	14.00	2½" BSP
BASP-3015	SASP-3015	3"	97.00	20.00	30.00	14.00	3" BSP
BASP-31215	SASP-31215	3½"	110.00	20.00	30.00	14.00	3½" BSP

Allen Stop Plug -PG							
Brass Code	Steel Code	Size	D	L1	L	A/F	T
BASP-714	SASP-714	PG 7	22.00	15.00	20.00	6.00	PG 7
BASP-914	SASP-914	PG 9	25.00	15.00	20.00	6.00	PG 9
BASP-1114	SASP-1114	PG 11	25.00	15.00	20.00	10.00	PG 11
BASP-1314	SASP-1314	PG 13.5	30.00	15.00	20.00	10.00	PG 13.5
BASP-1614	SASP-1614	PG 16	33.00	15.00	20.00	10.00	PG 16
BASP-2114	SASP-2114	PG 21	38.00	15.00	20.00	10.00	PG 21
BASP-2914	SASP-2914	PG 29	46.00	15.00	20.00	10.00	PG 29
BASP-3614	SASP-3614	PG 36	56.00	15.00	20.00	10.00	PG 36
BASP-4214	SASP-4214	PG 42	62.00	15.00	20.00	10.00	PG 42
BASP-4814	SASP-4814	PG 48	69.00	20.00	29.00	10.00	PG 48

Adaptor

Size : 16mm to 90mm & NPT, BSP, PG
Standard : EN/IEC 60079-0:2012+A11:2013/2011, EN/IEC 60079-1:2014, EN/IEC 60079-7:2015, EN/IEC 60079-31:2014 / 2013
Function : We offer a range of adaptors for industrial and hazardous area application which provide effectiveness connection between cable entry devices and equipment having dis-similar thread. Adaptors are used where the thread size of the cable gland or connection device is larger than, or of an equivalent size, to the entry thread of the enclosure.

Code of Protection : **Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db**
Area Classification : Group I and II, Category 2 (Zone 1) Gas Group IIA/IIB/IIC as per IEC 60079-0:2011, IEC 60079-7:2006-07 & IEC 60079-1:2014
Ingress Protection : IP67 as per IEC 60529.
Operating Temp. : -60°C to +125°C
Material : Brass CW614N/CW617N/EN12165, SS316L
Thread : Metric, NPT, BSP, and PG



Product Code for Ordering Purpose			
Type	Male Thread Size	Female Thread Size	Material
A	Metric	Metric	Brass-1
	NPT	NPT	Stainless Steel-2
	BSP	BSP	Nickel Plated-3

How to Order ?

Item Code: A-16 20 1
Code Meaning: Brass M16×M20 Adaptor

A =Adaptor, 16 =Male Thread Size (M16),
20 =Female Thread Size (M20), 1= With Brass Material.

				Adaptor			Metric to Metric	
Code	Size	A/F	A/C	L2	L1	L	T1	T2
A-16-20	M16 × M20	24.00	26.20	15.00	16.00	35.00	M16x1.5	M20x1.5
A-16-25	M16 × M25	30.00	33.00	15.00	16.00	35.00	M16x1.5	M25x1.5
A-20-25	M20 × M25	30.00	33.00	15.00	16.00	35.00	M20x1.5	M25x1.5
A-20-32	M20 × M32	36.00	39.20	15.00	16.00	35.00	M20x1.5	M32x1.5
A-20-40	M20 × M40	46.00	50.60	15.00	16.00	35.00	M20x1.5	M40x1.5
A-20-50	M20 × M50	55.00	60.00	15.00	16.00	35.00	M20x1.5	M50x1.5
A-25-32	M25 × M32	36.00	39.20	15.00	16.00	35.00	M25x1.5	M32x1.5
A-25-40	M25 × M40	46.00	50.60	15.00	16.00	35.00	M25x1.5	M40x1.5
A-25-50	M25 × M50	55.00	60.00	15.00	16.00	35.00	M25x1.5	M50x1.5
A-25-63	M25 × M63	70.00	75.00	15.00	16.00	35.00	M25x1.5	M63x1.5
A-25-75	M25 × M75	80.00	88.00	15.00	16.00	35.00	M25x1.5	M75x1.5
A-32-40	M32 × M40	46.00	50.60	15.00	16.00	35.00	M32x1.5	M40x1.5
A-32-50	M32 × M50	55.00	60.00	15.00	16.00	35.00	M32x1.5	M50x1.5
A-32-63	M32 × M63	70.00	75.00	15.00	16.00	35.00	M32x1.5	M63x1.5
A-32-75	M32 × M75	80.00	88.00	15.00	16.00	35.00	M32x1.5	M75x1.5
A-40-50	M40 × M50	55.00	60.00	15.00	16.00	35.00	M40x1.5	M50x1.5
A-40-63	M40 × M63	70.00	75.00	15.00	16.00	35.00	M40x1.5	M63x1.5
A-40-75	M40 × M75	80.00	88.00	15.00	16.00	35.00	M40x1.5	M75x1.5
A-40-90	M40 × M90	100.00	110.00	15.00	16.00	35.00	M40x1.5	M90x1.5
A-50-63	M50 × M63	70.00	75.00	15.00	16.00	35.00	M50x1.5	M63x1.5

continue...

Adaptor						Metric to Metric		
Code	Size	A/F	A/C	L1	L2	L	T1	T2
A-50-75	M50 × M75	80.00	88.00	15.00	16.00	35.00	M50x1.5	M75x1.5
A-50-90	M50 × M90	100.00	110.00	15.00	16.00	35.00	M50x1.5	M90x1.5
A-63-75	M63 × M75	80.00	88.00	15.00	16.00	35.00	M63x1.5	M75x1.5
A-63-90	M63 × M90	100.00	110.00	15.00	16.00	35.00	M63x1.5	M90x1.5
A-63-100	M63 × M100	110.00	120.00	15.00	16.00	35.00	M63x1.5	M100x1.5
A-75-90	M75 × M90	100.00	110.00	15.00	16.00	35.00	M75x1.5	M90x1.5
A-75-100	M75 × M100	110.00	120.00	15.00	16.00	35.00	M75x1.5	M100x1.5
A-90-100	M90 × M100	110.00	120.00	15.00	16.00	35.00	M90x1.5	M100x1.5

Adaptor						Metric to BSP (G)		
Code	Size	A/F	A/C	L1	L2	L	T1	T2
A-16-12G	M16 × 1/2"G	24.00	26.20	15.00	16.00	35.00	M16x1.5	1/2"G
A-16-34G	M16 × 3/4"G	30.00	33.00	15.00	16.00	35.00	M16x1.5	3/4"G
A-20-12G	M20 × 1/2"G	24.00	26.20	15.00	16.00	35.00	M20x1.5	1/2"G
A-20-34G	M20 × 3/4"G	30.00	33.00	15.00	16.00	35.00	M20x1.5	3/4"G
A-20-1G	M20 × 1"G	36.00	39.20	15.00	16.00	35.00	M20x1.5	1"G
A-20-114G	M20 × 1 1/4"G	46.00	50.60	15.00	16.00	35.00	M20x1.5	1 1/4"G
A-25-34G	M25 × 3/4"G	30.00	33.00	15.00	16.00	35.00	M25x1.5	3/4"G
A-25-1G	M25 × 1"G	36.00	39.20	15.00	16.00	35.00	M25x1.5	1"G
A-25-114G	M25 × 1 1/4"G	46.00	50.60	15.00	16.00	35.00	M25x1.5	1 1/4"G
A-25-112G	M25 × 1 1/2"G	55.00	60.00	15.00	16.00	35.00	M25x1.5	1 1/2"G
A-25-2G	M25 × 2"G	70.00	75.00	15.00	16.00	35.00	M25x1.5	2"G
A-25-212G	M25 × 2 1/2"G	80.00	88.00	15.00	16.00	35.00	M25x1.5	2 1/2"G
A-32-1G	M32 × 1"G	36.00	39.20	15.00	16.00	35.00	M32x1.5	1"G
A-32-114G	M32 × 1 1/4"G	46.00	50.60	15.00	16.00	35.00	M32x1.5	1 1/4"G
A-32-112G	M32 × 1 1/2"G	55.00	60.00	15.00	16.00	35.00	M32x1.5	1 1/2"G
A-32-2G	M32 × 2"G	70.00	75.00	15.00	16.00	35.00	M32x1.5	2"G
A-32-212G	M32 × 2 1/2"G	80.00	88.00	15.00	16.00	35.00	M32x1.5	2 1/2"G
A-40-114G	M40 × 1 1/4"G	46.00	50.60	15.00	16.00	35.00	M40x1.5	1 1/4"G
A-40-112G	M40 × 1 1/2"G	55.00	60.00	15.00	16.00	35.00	M40x1.5	1 1/2"G
A-40-2G	M40 × 2"G	70.00	75.00	15.00	16.00	35.00	M40x1.5	2"G
A-40-212G	M40 × 2 1/2"G	80.00	88.00	15.00	16.00	35.00	M40x1.5	2 1/2"G
A-40-3G	M40 × 3"G	95.00	100.00	15.00	16.00	35.00	M40x1.5	3"G
A-50-112G	M50 × 1 1/2"G	55.00	60.00	15.00	16.00	35.00	M50x1.5	1 1/2"G
A-50-2G	M50 × 2"G	70.00	75.00	15.00	16.00	35.00	M50x1.5	2"G
A-50-212G	M50 × 2 1/2"G	80.00	88.00	15.00	16.00	35.00	M50x1.5	2 1/2"G
A-50-3G	M50 × 3"G	95.00	100.00	15.00	16.00	35.00	M50x1.5	3"G
A-50-312G	M50 × 3 1/2"G	110.00	120.00	15.00	16.00	35.00	M50x1.5	3 1/2"G
A-63-2G	M63 × 2"G	70.00	75.00	15.00	16.00	35.00	M63x1.5	2"G
A-63-212G	M63 × 2 1/2"G	80.00	88.00	15.00	16.00	35.00	M63x1.5	2 1/2"G
A-63-3G	M63 × 3"G	95.00	100.00	15.00	16.00	35.00	M63x1.5	3"G
A-63-312G	M63 × 3 1/2"G	110.00	120.00	15.00	16.00	35.00	M63x1.5	3 1/2"G
A-75-212G	M75 × 2 1/2"G	80.00	88.00	15.00	16.00	35.00	M75x1.5	2 1/2"G
A-75-3G	M75 × 3"G	95.00	100.00	15.00	16.00	35.00	M75x1.5	3"G
A-75-312G	M75 × 3 1/2"G	110.00	120.00	15.00	16.00	35.00	M75x1.5	3 1/2"G

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Adaptor						Metric to BSP (G)		
Code	Size	A/F	A/C	L1	L2	L	T1	T2
A-90-3G	M90 × 3"G	95.00	100.00	15.00	16.00	35.00	M90x1.5	3"G
A-90-312G	M90 × 3 1/2"G	110.00	120.00	15.00	16.00	35.00	M90x1.5	3 1/2"G
A-100-312G	M100 × 3 1/2"G	110.00	120.00	15.00	16.00	35.00	M100x1.5	3 1/2"G
A-100-4G	M100 × 4"G	127.00	140.00	15.00	16.00	35.00	M100x1.5	4"G

Adaptor						Metric to PG		
Code	Size	A/F	A/C	L1	L2	L	T1	T2
A-20-PG11	M20 x PG 11	24.00	26.20	15.00	16.00	35.00	M20x1.5	PG11
A-20-PG13	M20 x PG 13.5	24.00	26.20	15.00	16.00	35.00	M20x1.5	PG13.5
A-20-PG16	M20 x PG 16	30.00	33.00	15.00	16.00	35.00	M20x1.5	PG16
A-25-PG21	M25 x PG 21	30.00	33.00	15.00	16.00	35.00	M25x1.5	PG21
A-25-PG29	M25 x PG 29	46.00	50.60	15.00	16.00	35.00	M25x1.5	PG29
A-25-PG36	M25 x PG 36	55.00	60.00	15.00	16.00	35.00	M25x1.5	PG36
A-32-PG29	M32 x PG 29	46.00	50.60	15.00	16.00	35.00	M32x1.5	PG29
A-32-PG36	M32 x PG 36	55.00	60.00	15.00	16.00	35.00	M32x1.5	PG36
A-32-PG42	M32 x PG 42	60.00	65.00	15.00	16.00	35.00	M32x1.5	PG42
A-40-PG36	M40 x PG 36	55.00	60.00	15.00	16.00	35.00	M40x1.5	PG36
A-40-PG42	M40 x PG 42	60.00	65.00	15.00	16.00	35.00	M40x1.5	PG42
A-40-PG48	M40 x PG 48	70.00	75.00	15.00	16.00	35.00	M40x1.5	PG48
A-50-PG42	M50 x PG 42	60.00	65.00	15.00	16.00	35.00	M50x1.5	PG42
A-50-PG48	M50 x PG 48	70.00	75.00	15.00	16.00	35.00	M50x1.5	PG48

Adaptor						Metric to NPT		
Code	Size	A/F	A/C	L1	L2	L	T1	T2
A-16-12N	M16 × 1/2"NPT	24.00	26.20	15.00	16.00	35.00	M16x1.5	1/2" NPT
A-16-34N	M16 × 3/4"NPT	30.00	33.00	15.00	16.00	35.00	M16x1.5	3/4" NPT
A-20-12N	M20 × 1/2"NPT	24.00	26.40	15.00	16.00	35.00	M20x1.5	1/2" NPT
A-20-34N	M20 × 3/4"NPT	30.00	33.00	15.00	16.00	35.00	M20x1.5	3/4" NPT
A-20-1N	M20 × 1"NPT	36.00	39.20	15.00	16.00	35.00	M20x1.5	1" NPT
A-20-114N	M20 × 1 1/4"NPT	46.00	50.60	15.00	16.00	35.00	M20x1.5	1 1/4" NPT
A-25-34N	M25 × 3/4"NPT	30.00	33.00	15.00	16.00	35.00	M25x1.5	3/4" NPT
A-25-1N	M25 × 1"NPT	36.00	39.20	15.00	16.00	35.00	M25x1.5	1" NPT
A-25-114N	M25 × 1 1/4"NPT	46.00	50.60	15.00	16.00	35.00	M25x1.5	1 1/4" NPT
A-25-112N	M25 × 1 1/2"NPT	55.00	60.00	15.00	16.00	35.00	M25x1.5	1 1/2" NPT
A-25-2N	M25 × 2"NPT	70.00	75.00	15.00	16.00	35.00	M25x1.5	2" NPT
A-25-212N	M25 × 2 1/2"NPT	80.00	88.00	15.00	16.00	35.00	M25x1.5	2 1/2" NPT
A-32-1N	M32 × 1"NPT	36.00	39.20	15.00	16.00	35.00	M32x1.5	1" NPT
A-32-114N	M32 × 1 1/4"NPT	46.00	50.60	15.00	16.00	35.00	M32x1.5	1 1/4" NPT
A-32-112N	M32 × 1 1/2"NPT	55.00	60.00	15.00	16.00	35.00	M32x1.5	1 1/2" NPT
A-32-2N	M32 × 2"NPT	70.00	75.00	15.00	16.00	35.00	M32x1.5	2" NPT
A-32-212N	M32 × 2 1/2"NPT	80.00	88.00	15.00	16.00	35.00	M32x1.5	2 1/2" NPT
A-40-114N	M40 × 1 1/4"NPT	46.00	50.60	15.00	16.00	35.00	M40x1.5	1 1/4" NPT
A-40-112N	M40 × 1 1/2"NPT	55.00	60.00	15.00	16.00	35.00	M40x1.5	1 1/2" NPT
A-40-2N	M40 × 2"NPT	70.00	75.00	15.00	16.00	35.00	M40x1.5	2" NPT

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Adaptor						Metric to NPT		
Code	Size	A/F	A/C	L1	L2	L	T1	T2
A-40-212N	M40 × 2 1/2"NPT	80.00	88.00	15.00	16.00	35.00	M40x1.5	2 1/2" NPT
A-40-3N	M40 × 3"NPT	95.00	100.00	15.00	16.00	35.00	M40x1.5	3" NPT
A-50-112N	M50 × 1 1/2"NPT	55.00	60.00	15.00	16.00	35.00	M50x1.5	1 1/2" NPT
A-50-2N	M50 × 2"NPT	70.00	75.00	15.00	16.00	35.00	M50x1.5	2" NPT
A-50-212N	M50 × 2 1/2"NPT	80.00	88.00	15.00	16.00	39.00	M50x1.5	2 1/2" NPT
A-50-3N	M50 × 3"NPT	95.00	100.00	15.00	16.00	39.00	M50x1.5	3" NPT
A-50-312N	M50 × 3 1/2"NPT	110.00	120.00	15.00	16.00	39.00	M50x1.5	3 1/2" NPT
A-63-2N	M63 × 2"NPT	70.00	75.00	15.00	16.00	35.00	M63x1.5	2" NPT
A-63-212N	M63 × 2 1/2"NPT	80.00	88.00	15.00	16.00	39.00	M63x1.5	2 1/2" NPT
A-63-3N	M63 × 3"NPT	95.00	100.00	15.00	16.00	39.00	M63x1.5	3" NPT
A-63-312N	M63 × 3 1/2"NPT	110.00	120.00	15.00	16.00	39.00	M63x1.5	3 1/2" NPT
A-75-212N	M75 × 2 1/2"NPT	80.00	88.00	15.00	16.00	39.00	M75x1.5	2 1/2" NPT
A-75-3N	M75 × 3"NPT	95.00	100.00	15.00	16.00	39.00	M75x1.5	3" NPT
A-75-312N	M75 × 3 1/2"NPT	110.00	120.00	15.00	16.00	39.00	M75x1.5	3 1/2" NPT
A-90-3N	M90 × 3"NPT	95.00	100.00	15.00	16.00	39.00	M90x1.5	3" NPT
A-90-312N	M90 × 3 1/2"NPT	110.00	120.00	15.00	16.00	39.00	M90x1.5	3 1/2" NPT
A-100-312N	M100 × 3 1/2"NPT	110.00	120.00	15.00	16.00	39.00	M100x1.5	3 1/2" NPT
A-100-4N	M100 × 4"NPT	127.00	140.00	15.00	16.00	39.00	M100x1.5	4" NPT

Adaptor						BSP(G) to Metric		
Code	Size	A/F	A/C	L1	L2	L	T1	T2
A-12G-20	1/2"G × M20	24.00	26.20	20.00	16.00	40.00	1/2"G	M20x1.5
A-12G-25	1/2"G × M25	30.00	33.00	20.00	16.00	40.00	1/2"G	M25x1.5
A-12G-32	1/2"G × M32	36.00	39.20	20.00	16.00	40.00	1/2"G	M32x1.5
A-12G-40	1/2"G × M40	46.00	50.60	20.00	16.00	40.00	1/2"G	M40x1.5
A-12G-50	1/2"G × M50	55.00	60.00	20.00	16.00	40.00	1/2"G	M50x1.5
A-34G-25	3/4"G × M25	30.00	33.00	20.00	16.00	40.00	3/4"G	M25x1.5
A-34G-32	3/4"G × M32	36.00	39.20	20.00	16.00	40.00	3/4"G	M32x1.5
A-34G-40	3/4"G × M40	46.00	50.60	20.00	16.00	40.00	3/4"G	M40x1.5
A-34G-50	3/4"G × M50	55.00	60.00	20.00	16.00	40.00	3/4"G	M50x1.5
A-34G-63	3/4"G × M63	70.00	75.00	20.00	16.00	40.00	3/4"G	M63x1.5
A-34G-75	3/4"G × M75	80.00	88.00	20.00	16.00	40.00	3/4"G	M75x1.5
A-1G-32	1"G × M32	36.00	39.20	20.00	16.00	40.00	1"G	M32x1.5
A-1G-40	1"G × M40	46.00	50.60	20.00	16.00	40.00	1"G	M40x1.5
A-1G-50	1"G × M50	55.00	60.00	20.00	16.00	40.00	1"G	M50x1.5
A-1G-63	1"G × M63	70.00	75.00	20.00	16.00	40.00	1"G	M63x1.5
A-1G-75	1"G × M75	80.00	88.00	20.00	16.00	40.00	1"G	M75x1.5
A-1G-90	1"G × M90	100.00	110.00	20.00	16.00	40.00	1"G	M90x1.5
A-114G-40	1 1/4"G × M40	46.00	50.60	20.00	16.00	40.00	1 1/4"G	M40x1.5
A-114G-50	1 1/4"G × M50	55.00	60.00	20.00	16.00	40.00	1 1/4"G	M50x1.5
A-114G-63	1 1/4"G × M63	70.00	75.00	20.00	16.00	40.00	1 1/4"G	M63x1.5
A-114G-75	1 1/4"G × M75	80.00	88.00	20.00	16.00	40.00	1 1/4"G	M75x1.5
A-114G-90	1 1/4"G × M90	100.00	110.00	20.00	16.00	40.00	1 1/4"G	M90x1.5
A-112G-50	1 1/2"G × M50	55.00	60.00	20.00	16.00	40.00	1 1/2"G	M50x1.5

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Adaptor						BSP (G) to Metric		
Code	Size	A/F	A/C	L1	L2	L	T1	T2
A-112G-63	1 1/2"G × M63	70.00	75.00	20.00	16.00	40.00	1 1/2"G	M63x1.5
A-112G-75	1 1/2"G × M75	80.00	88.00	20.00	16.00	40.00	1 1/2"G	M75x1.5
A-112G-90	1 1/2"G × M90	100.00	110.00	20.00	16.00	40.00	1 1/2"G	M90x1.5
A-2G-63	2"G × M63	70.00	75.00	20.00	16.00	40.00	2"G	M63x1.5
A-2G-75	2"G × M75	80.00	88.00	20.00	16.00	40.00	2"G	M75x1.5
A-2G-90	2"G × M90	100.00	110.00	20.00	16.00	40.00	2"G	M90x1.5
A-212G-75	2 1/2"G × M75	80.00	88.00	20.00	16.00	40.00	2 1/2"G	M75x1.5
A-212G-90	2 1/2"G × M90	100.00	110.00	20.00	16.00	40.00	2 1/2"G	M90x1.5
A-212G-100	2 1/2"G × M100	110.00	120.00	20.00	16.00	40.00	2 1/2"G	M100x1.5
A-3G-90	3"G × M90	95.00	100.00	20.00	16.00	40.00	3"G	M90x1.5
A-3G-100	3"G × M100	110.00	120.00	20.00	16.00	40.00	3"G	M100x1.5
A-312G-100	3 1/2"G × M100	110.00	120.00	20.00	16.00	40.00	3 1/2"G	M100x1.5

Adaptor						BSP (G) to BSP (G)		
Code	Size	A/F	A/C	L1	L2	L	T1	T2
A-38G-12G	3/8"G × 1/2"G	24.00	26.20	20.00	16.00	40.00	3/8"G	1/2"G
A-38G-34G	3/8"G × 3/4"G	30.50	33.30	20.00	16.00	40.00	3/8"G	3/4"G
A-12G-1G	1/2"G × 1"G	36.00	39.60	20.00	16.00	40.00	1/2"G	1"G
A-12G-114G	1/2"G × 1 1/4"G	46.00	50.60	20.00	16.00	40.00	1/2"G	1 1/4"G
A-12G-112G	1/2"G × 1 1/2"G	55.00	60.00	20.00	16.00	40.00	1/2"G	1 1/2"G
A-34G-1G	3/4"G × 1"G	36.00	39.60	20.00	16.00	40.00	3/4"G	1"G
A-34G-114G	3/4"G × 1 1/4"G	46.00	50.60	20.00	16.00	40.00	3/4"G	1 1/4"G
A-34G-112G	3/4"G × 1 1/2"G	55.00	60.00	20.00	16.00	40.00	3/4"G	1 1/2"G
A-34G-2G	3/4"G × 2"G	70.00	75.00	20.00	16.00	40.00	3/4"G	2"G
A-34G-212G	3/4"G × 2 1/2"G	80.00	88.00	20.00	16.00	40.00	3/4"G	2 1/2"G
A-1G-114G	1"G × 1 1/4"G	46.00	50.60	20.00	16.00	40.00	1"G	1 1/4"G
A-1G-112G	1"G × 1 1/2"G	55.00	60.00	20.00	16.00	40.00	1"G	1 1/2"G
A-1G-2G	1"G × 2"G	70.00	75.00	20.00	16.00	40.00	1"G	2"G
A-1G-212G	1"G × 2 1/2"G	80.00	88.00	20.00	16.00	40.00	1"G	2 1/2"G
A-114G-112G	1 1/4"G × 1 1/2"G	55.00	60.00	20.00	16.00	40.00	1 1/4"G	1 1/2"G
A-114G-2G	1 1/4"G × 2"G	70.00	75.00	20.00	16.00	40.00	1 1/4"G	2"G
A-114G-212G	1 1/4"G × 2 1/2"G	80.00	88.00	20.00	16.00	40.00	1 1/4"G	2 1/2"G
A-112G-2G	1 1/2"G × 2"G	70.00	75.00	20.00	16.00	40.00	1 1/2"G	2"G
A-112G-212G	1 1/2"G × 2 1/2"G	80.00	88.00	20.00	16.00	40.00	1 1/2"G	2 1/2"G
A-2G-212G	2"G × 2 1/2"G	80.00	88.00	20.00	16.00	40.00	2"G	2 1/2"G
A-2G-3G	2"G × 3"G	100.00	110.00	20.00	16.00	40.00	2"G	3"G
A-212G-3G	2 1/2"G × 3"G	100.00	110.00	20.00	16.00	40.00	2 1/2"G	3"G
A-212G-312G	2 1/2"G × 3 1/2"G	110.00	120.00	20.00	16.00	40.00	2 1/2"G	3 1/2"G
A-3G-3G	3"G × 3"G	100.00	110.00	20.00	16.00	40.00	3"G	3"G
A-3G-312G	3"G × 3 1/2"G	110.00	120.00	20.00	16.00	40.00	3"G	3 1/2"G

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Adaptor						PG to PG		
Code	Size	A/F	A/C	L1	L2	L	T1	T2
A-PG7-9	PG7 x PG9	24.00	26.20	15.00	16.00	35.00	PG7	PG9
A-PG7-11	PG7 x PG11	24.00	26.20	15.00	16.00	35.00	PG7	PG11
A-PG9-11	PG9 x PG11	24.00	26.20	15.00	16.00	35.00	PG9	PG11
A-PG9-13	PG9 x PG13.5	30.00	26.20	15.00	16.00	35.00	PG9	PG13.5
A-PG9-16	PG9 x PG16	24.00	33.00	15.00	16.00	35.00	PG9	PG16
A-PG11-13	PG11 x PG13.5	30.00	26.20	15.00	16.00	35.00	PG11	PG13.5
A-PG11-16	PG11 x PG16	30.00	33.00	15.00	16.00	35.00	PG11	PG16
A-PG11-21	PG11 x PG21	30.00	33.00	15.00	16.00	35.00	PG11	PG21
A-PG13-16	PG13.5 x PG16	30.00	33.00	15.00	16.00	35.00	PG13.5	PG16
A-PG13-21	PG13.5 x PG21	46.00	33.00	15.00	16.00	35.00	PG13.5	PG21
A-PG13-29	PG13.5 x PG29	30.00	50.60	15.00	16.00	35.00	PG13.5	PG29
A-PG16-21	PG16 x PG21	46.00	33.00	15.00	16.00	35.00	PG16	PG21
A-PG16-29	PG16 x PG29	55.00	50.60	15.00	16.00	35.00	PG16	PG29
A-PG16-36	PG16 x PG36	46.00	60.00	15.00	16.00	35.00	PG16	PG36
A-PG21-29	PG21 x PG29	55.00	50.60	15.00	16.00	35.00	PG21	PG29
A-PG21-36	PG21 x PG36	60.00	60.00	15.00	16.00	35.00	PG21	PG36
A-PG21-42	PG21 x PG42	55.00	65.00	15.00	16.00	35.00	PG21	PG42
A-PG29-36	PG29 x PG36	60.00	60.00	15.00	16.00	35.00	PG29	PG36
A-PG29-42	PG29 x PG42	70.00	65.00	15.00	16.00	35.00	PG29	PG42
A-PG29-48	PG29 x PG48	60.00	75.00	15.00	16.00	35.00	PG29	PG48
A-PG36-42	PG36 x PG42	70.00	65.00	15.00	16.00	35.00	PG36	PG42
A-PG36-48	PG36 x PG48	70.00	75.00	15.00	16.00	35.00	PG36	PG48
A-PG42-48	PG42 x PG48	70.00	75.00	15.00	16.00	35.00	PG42	PG48

Adaptor						NPT to Metric		
Code	Size	A/F	A/C	L1	L2	L	T1	T2
A-12N-20	1/2"NPT × M20	24.00	26.20	20.00	16.00	40.00	1/2" NPT	M20x1.5
A-12N-25	1/2"NPT × M25	30.50	33.30	20.00	16.00	40.00	1/2" NPT	M25x1.5
A-12N-32	1/2"NPT × M32	36.00	39.60	20.00	16.00	40.00	1/2" NPT	M32x1.5
A-12N-40	1/2"NPT × M40	46.00	50.60	20.00	16.00	40.00	1/2" NPT	M40x1.5
A-12N-50	1/2"NPT × M50	55.00	60.00	20.00	16.00	40.00	1/2" NPT	M50x1.5
A-34N-25	3/4"NPT × M25	30.50	33.30	20.00	16.00	40.00	3/4" NPT	M25x1.5
A-34N-32	3/4"NPT × M32	36.00	39.60	20.00	16.00	40.00	3/4" NPT	M32x1.5
A-34N-40	3/4"NPT × M40	46.00	50.60	20.00	16.00	40.00	3/4" NPT	M40x1.5
A-34N-50	3/4"NPT × M50	55.00	60.00	20.00	16.00	40.00	3/4" NPT	M50x1.5
A-34N-63	3/4"NPT × M63	70.00	75.00	20.00	16.00	40.00	3/4" NPT	M63x1.5
A-1N-32	1"NPT × M32	36.00	39.60	20.00	16.00	40.00	1" NPT	M32x1.5
A-1N-40	1"NPT × M40	46.00	50.60	20.00	16.00	40.00	1" NPT	M40x1.5
A-1N-50	1"NPT × M50	55.00	60.00	20.00	16.00	40.00	1" NPT	M50x1.5
A-1N-63	1"NPT × M63	70.00	75.00	20.00	16.00	40.00	1" NPT	M63x1.5
A-1N-75	1"NPT × M75	80.00	88.00	20.00	16.00	40.00	1" NPT	M75x1.5
A-114N-40	1 1/4"NPT × M40	46.00	50.60	20.00	16.00	40.00	1 1/4" NPT	M40x1.5
A-114N-50	1 1/4"NPT × M50	55.00	60.00	20.00	16.00	40.00	1 1/4" NPT	M50x1.5
A-114N-63	1 1/4"NPT × M63	70.00	75.00	20.00	16.00	40.00	1 1/4" NPT	M63x1.5

continue...

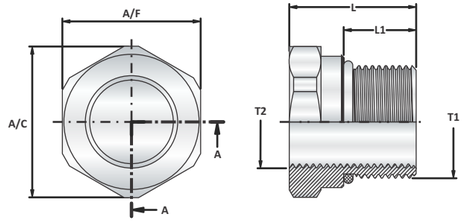
Adaptor						NPT to Metric		
Code	Size	A/F	A/C	L1	L2	L	T1	T2
A-114N-75	1 1/4"NPT × M75	80.00	88.00	20.00	16.00	40.00	1 1/4" NPT	M75x1.5
A-112N-50	1 1/2"NPT × M50	55.00	60.00	20.00	16.00	40.00	1 1/2" NPT	M50x1.5
A-112N-63	1 1/2"NPT × M63	70.00	75.00	20.00	16.00	40.00	1 1/2" NPT	M63x1.5
A-112N-75	1 1/2"NPT × M75	80.00	88.00	20.00	16.00	40.00	1 1/2" NPT	M75x1.5
A-112N-90	1 1/2"NPT × M90	100.00	110.00	20.00	16.00	40.00	1 1/2" NPT	M90x1.5
A-2N-63	2"NPT × M63	70.00	75.00	20.00	16.00	40.00	2" NPT	M63x1.5
A-2N-75	2"NPT × M75	80.00	88.00	20.00	16.00	40.00	2" NPT	M75x1.5
A-2N-90	2"NPT × M90	100.00	110.00	20.00	16.00	40.00	2" NPT	M90x1.5
A-212N-75	2 1/2"NPT × M75	80.00	88.00	20.00	16.00	40.00	2 1/2" NPT	M75x1.5
A-212N-90	2 1/2"NPT × M90	100.00	110.00	20.00	16.00	40.00	2 1/2" NPT	M90x1.5
A-212N-100	2 1/2"NPT × M100	110.00	120.00	20.00	16.00	40.00	2 1/2" NPT	M100x1.5
A-3N-90	3"NPT × M90	100.00	110.00	20.00	16.00	40.00	3" NPT	M90x1.5
A-3N-100	3"NPT × M100	110.00	120.00	20.00	16.00	40.00	3" NPT	M100x1.5
A- 312N-100	3 1/2"NPT x M100	110.00	120.00	20.00	16.00	40.00	3 1/2" NPT	M100x1.5

Adaptor						NPT to NPT		
Code	Size	A/F	A/C	L1	L2	L	T1	T2
A-38N-12N	3/8"NPT × 1/2"NPT	24.00	26.20	20.00	16.00	40.00	3/8" NPT	1/2" NPT
A-38N-34N	3/8"NPT × 3/4"NPT	30.50	33.30	20.00	16.00	40.00	3/8" NPT	3/4" NPT
A-12N-34N	1/2"NPT × 3/4"NPT	30.50	33.30	20.00	16.00	40.00	1/2" NPT	3/4" NPT
A-12N-1N	1/2"NPT × 1"NPT	36.00	39.60	20.00	16.00	40.00	1/2" NPT	1" NPT
A-12N-114N	1/2"NPT × 1 1/4"NPT	46.00	50.60	20.00	16.00	40.00	1/2" NPT	1 1/4" NPT
A-12N-112N	1/2"NPT × 1 1/2"NPT	55.00	60.00	20.00	16.00	40.00	1/2" NPT	1 1/2" NPT
A-34N-1N	3/4"NPT × 1"NPT	36.00	39.60	20.00	16.00	40.00	3/4" NPT	1" NPT
A-34N-114N	3/4"NPT × 1 1/4"NPT	46.00	50.60	20.00	16.00	40.00	3/4" NPT	1 1/4" NPT
A-34N-112N	3/4"NPT × 1 1/2"NPT	55.00	60.00	20.00	16.00	40.00	3/4" NPT	1 1/2" NPT
A-34N-2N	3/4"NPT × 2"NPT	70.00	75.00	20.00	16.00	40.00	3/4" NPT	2" NPT
A-1N-114N	1"NPT × 1 1/4"NPT	46.00	50.60	20.00	16.00	40.00	1" NPT	1 1/4" NPT
A-1N-112N	1"NPT × 1 1/2"NPT	55.00	60.00	20.00	16.00	40.00	1" NPT	1 1/2" NPT
A-1N-2N	1"NPT × 2"NPT	70.00	75.00	20.00	16.00	40.00	1" NPT	2" NPT
A-1N-212N	1"NPT × 2 1/2"NPT	80.00	88.00	20.00	20.00	44.00	1" NPT	2 1/2" NPT
A-114N-112N	1 1/4"NPT × 1 1/2"NPT	55.00	60.00	20.00	16.00	40.00	1 1/4" NPT	1 1/2" NPT
A-114N-2N	1 1/4"NPT × 2"NPT	70.00	75.00	20.00	16.00	40.00	1 1/4" NPT	2" NPT
A-114N-212N	1 1/4"NPT × 2 1/2"NPT	80.00	88.00	20.00	20.00	44.00	1 1/4" NPT	2 1/2" NPT
A-114N-3N	1 1/4"NPT × 3"NPT	100.00	110.00	20.00	20.00	44.00	1 1/4" NPT	3" NPT
A-112N-2N	1 1/2"NPT × 2"NPT	70.00	75.00	20.00	16.00	40.00	1 1/2" NPT	2" NPT
A-112N-212N	1 1/2"NPT × 2 1/2"NPT	80.00	88.00	20.00	20.00	44.00	1 1/2" NPT	2 1/2" NPT
A-112N-3N	1 1/2"NPT × 3"NPT	100.00	110.00	20.00	20.00	44.00	1 1/2" NPT	3" NPT
A-2N-212N	2"NPT × 2 1/2"NPT	80.00	88.00	20.00	20.00	44.00	2" NPT	2 1/2" NPT
A-2N-3N	2"NPT × 3"NPT	100.00	110.00	20.00	20.00	44.00	2" NPT	3" NPT
A-212N-3N	2 1/2"NPT × 3"NPT	100.00	110.00	20.00	20.00	44.00	2 1/2" NPT	3" NPT
A-212N-312N	2 1/2"NPT × 3 1/2"NPT	110.00	120.00	20.00	20.00	44.00	2 1/2" NPT	3 1/2"NPT
A-3N-312N	3"NPT × 3 1/2"NPT	110.00	120.00	20.00	20.00	44.00	3" NPT	3 1/2" NPT
A-3N-4N	3"NPT × 4"NPT	123.00	135.00	20.00	20.00	44.00	3" NPT	4" NPT
A-312N-4N	3 1/2"NPT × 4"NPT	123.00	135.00	20.00	20.00	44.00	3 1/2" NPT	4" NPT

Reducer

Size : 20mm to 100mm & NPT, BSP, PG
Standard : EN/IEC 60079-0:2012+A11:2013/2011, EN/IEC 60079-1:2014, EN/IEC 60079-7:2015, EN/IEC 60079-31:2014/2013
Function : We offer a range of reducer for industrial and hazardous area application which provide effectiveness connection between cable entry devices and equipment having dis-similar thread. Reducers are designed to reduce dis-similar thread.

Code of Protection : **Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db**
Area Classification : Group I and II, Category 2 (Zone 1) Gas Group IIA/IIB/IIC as per IEC 60079-0:2011, IEC 60079-7:2006-07 & IEC 60079-1:2014
Ingress Protection : IP67 as per IEC 60529.
Operating Temp. : -60°C to +125°C
Material : Brass CW614N/CW617N/EN12165, SS316L
Thread : Metric, NPT, BSP, and PG



Product Code for Ordering Purpose

Type	Male Thread Size	Female Thread Size	Material
R	Metric	Metric	Brass-1
	NPT	NPT	Stainless Steel-2
	BSP	BSP	Nickel Plated-3

How to Order ?

Item Code: R-20 16 1
Code Meaning: Brass M20×M16 Reducer

R-20 16 1 = Brass M16×M20 Reducer
R =Reducer, 20 =Male Thread Size (M20), 16 =Female Thread Size (M16), 1=With Brass Material.

Reducer					Metric to Metric		
Code	Size	A/F	A/C	L1	L	T1	T2
R-20-16	M20 × M16	24.00	26.20	15.00	23.00	M20×1.5	M16×1.5
R-25-16	M25 × M16	30.00	33.00	15.00	23.00	M25×1.5	M16×1.5
R-25-20	M25 × M20	30.00	33.00	15.00	23.00	M25×1.5	M20×1.5
R-32-16	M32 × M16	36.00	39.20	15.00	23.00	M32×1.5	M16×1.5
R-32-20	M32 × M20	36.00	39.20	15.00	23.00	M32×1.5	M20×1.5
R-32-25	M32 × M25	36.00	39.20	15.00	23.00	M32×1.5	M25×1.5
R-40-16	M40 × M16	46.00	50.60	15.00	23.00	M40×1.5	M16×1.5
R-40-20	M40 × M20	46.00	50.60	15.00	23.00	M40×1.5	M20×1.5
R-40-25	M40 × M25	46.00	50.60	15.00	23.00	M40×1.5	M25×1.5
R-40-32	M40 × M32	46.00	50.60	15.00	23.00	M40×1.5	M32×1.5
R-50-20	M50 × M20	55.00	60.00	15.00	23.00	M50×1.5	M20×1.5
R-50-25	M50 × M25	55.00	60.00	15.00	23.00	M50×1.5	M25×1.5
R-50-32	M50 × M32	55.00	60.00	15.00	23.00	M50×1.5	M32×1.5
R-50-40	M50 × M40	55.00	60.00	15.00	23.00	M50×1.5	M40×1.5

continue...

Reducer					Metric to Metric		
Code	Size	A/F	A/C	L1	L	T1	T2
R-63-25	M63 × M25	70.00	75.00	15.00	23.00	M63×1.5	M25×1.5
R-63-32	M63 × M32	70.00	75.00	15.00	23.00	M63×1.5	M32×1.5
R-63-40	M63 × M40	70.00	75.00	15.00	23.00	M63×1.5	M40×1.5
R-63-50	M63 × M50	70.00	75.00	15.00	23.00	M63×1.5	M50×1.5
R-75-25	M75 × M25	80.00	85.00	15.00	23.00	M75×1.5	M25×1.5
R-75-32	M75 × M32	80.00	85.00	15.00	23.00	M75×1.5	M32×1.5
R-75-40	M75 × M40	80.00	85.00	15.00	23.00	M75×1.5	M40×1.5
R-75-50	M75 × M50	80.00	85.00	15.00	23.00	M75×1.5	M50×1.5
R-75-63	M75 × M63	80.00	85.00	15.00	23.00	M75×1.5	M63×1.5
R-90-32	M90 × M32	95.00	100.00	15.00	23.00	M90×1.5	M32×1.5
R-90-40	M90 × M40	95.00	100.00	15.00	23.00	M90×1.5	M40×1.5
R-90-50	M90 × M50	95.00	100.00	15.00	23.00	M90×1.5	M50×1.5
R-90-63	M90 × M63	95.00	100.00	15.00	23.00	M90×1.5	M63×1.5
R-90-75	M90 × M75	95.00	100.00	15.00	23.00	M90×1.5	M75×1.5
R-100-50	M100 × M50	110.00	120.00	15.00	23.00	M100x1.5	M50×1.5
R-100-63	M100 × M63	110.00	120.00	15.00	23.00	M100x1.5	M63×1.5
R-100-75	M100 × M75	110.00	120.00	15.00	23.00	M100x1.5	M75×1.5
R-100-90	M100 × M90	110.00	120.00	15.00	23.00	M100x1.5	M90x1.5

Reducer					Metric to BSP (G)		
Code	Size	A/F	A/C	L1	L	T1	T2
R-25-12G	M25 x 1/2"G	30.00	33.00	15.00	23.00	M25×1.5	1/2"G
R-32-12G	M32 x 1/2"G	36.00	39.20	15.00	23.00	M32×1.5	1/2"G
R-32-34G	M32 x 3/4"G	36.00	39.20	15.00	23.00	M32×1.5	3/4"G
R-40-12G	M40 x 1/2"G	46.00	50.60	15.00	23.00	M40×1.5	1/2"G
R-40-34G	M40 x 3/4"G	46.00	50.60	15.00	23.00	M40×1.5	3/4"G
R-40-1G	M40 x 1"G	46.00	50.60	15.00	23.00	M40×1.5	1"G
R-50-12G	M50 x 1/2"G	55.00	60.00	15.00	23.00	M50×1.5	1/2"G
R-50-34G	M50 x 3/4" G	55.00	60.00	15.00	23.00	M50×1.5	3/4"G
R-50-1G	M50 x 1"G	55.00	60.00	15.00	23.00	M50×1.5	1"G
R-50-114G	M50 x 1 1/4"G	55.00	60.00	15.00	23.00	M50×1.5	1 1/4"G
R-63-12G	M63 x 1/2"G	70.00	75.00	15.00	23.00	M63×1.5	1/2"G
R-63-34G	M63 x 3/4"G	70.00	75.00	15.00	23.00	M63×1.5	3/4"G
R-63-1G	M63 x 1"G	70.00	75.00	15.00	23.00	M63×1.5	1"G
R-63-114G	M63 x 1 1/4"G	70.00	75.00	15.00	23.00	M63×1.5	1 1/4"G
R-63-112G	M63 x 1 1/2"G	70.00	75.00	15.00	23.00	M63×1.5	1 1/2"G
R-75-34G	M75 x 3/4"G	80.00	85.00	15.00	23.00	M75×1.5	3/4"G
R-75-1G	M75 x 1"G	80.00	85.00	15.00	23.00	M75×1.5	1"G
R-75-114G	M75 x 1 1/4"G	80.00	85.00	15.00	23.00	M75×1.5	1 1/4"G
R-75-1 12G	M75 x 1 1/2"G	80.00	85.00	15.00	23.00	M75×1.5	1 1/2"G
R-75-2G	M75 x 2"G	80.00	85.00	15.00	23.00	M75×1.5	2"G
R-90-114G	M90 x 1 1/4"G	95.00	100.00	15.00	23.00	M90×1.5	1 1/4"G
R-90-112G	M90 x 1 1/2"G	95.00	100.00	15.00	23.00	M90×1.5	1 1/2"G
R-90-2G	M90 x 2"G	95.00	100.00	15.00	23.00	M90×1.5	2"G

continue...

Reducer						Metric to BSP (G)	
Code	Size	A/F	A/C	L1	L	T1	T2
R-90-212G	M90 x 2 1/2"G	95.00	100.00	15.00	23.00	M90×1.5	2 1/2"G
R-100-112G	M100 x 1 1/2"G	110.00	120.00	15.00	23.00	M100x1.5	1 1/2"G
R-100-2G	M100 x 2"G	110.00	120.00	15.00	23.00	M100x1.5	2"G
R-100-212G	M100 x 2 1/2"G	110.00	120.00	15.00	23.00	M100x1.5	2 1/2"G
R-100-3G	M100 x 3"G	110.00	120.00	15.00	23.00	M100x1.5	3"G

Reducer						Metric to NPT	
Code	Size	A/F	A/C	L1	L	T1	T2
R-25-12N	M25 × 1/2"NPT	30.00	33.00	15.00	23.00	M25×1.5	1/2" NPT
R-32-12N	M32 × 1/2"NPT	36.00	39.20	15.00	23.00	M32×1.5	1/2" NPT
R-32-34N	M32 × 3/4"NPT	36.00	39.20	15.00	23.00	M32×1.5	3/4" NPT
R-40-12N	M40 x 1/2"NPT	46.00	50.60	15.00	23.00	M40×1.5	1/2" NPT
R-40-34N	M40 × 3/4"NPT	46.00	50.60	15.00	23.00	M40×1.5	3/4" NPT
R-40-1N	M40 × 1"NPT	46.00	50.60	15.00	23.00	M40×1.5	1" NPT
R-50-12N	M50 x 1/2"NPT	55.00	60.00	15.00	23.00	M50×1.5	1/2" NPT
R-50-34N	M50 x 3/4" NPT	55.00	60.00	15.00	23.00	M50×1.5	3/4" NPT
R-50-1N	M50 x 1"NPT	55.00	60.00	15.00	23.00	M50×1.5	1" NPT
R-50-114N	M50 x 1 1/4"NPT	55.00	60.00	15.00	23.00	M50×1.5	1 1/4" NPT
R-63-12N	M63 x 1/2"NPT	70.00	75.00	15.00	23.00	M63×1.5	1/2" NPT
R-63-34N	M63 x 3/4"NPT	70.00	75.00	15.00	23.00	M63×1.5	3/4" NPT
R-63-1N	M63 x 1"NPT	70.00	75.00	15.00	23.00	M63×1.5	1" NPT
R-63-114N	M63 x 1 1/4"NPT	70.00	75.00	15.00	23.00	M63×1.5	1 1/4" NPT
R-63-112N	M63 x 1 1/2"NPT	70.00	75.00	15.00	23.00	M63×1.5	1 1/2" NPT
R-75-34N	M75 x 3/4"NPT	80.00	85.00	15.00	23.00	M75×1.5	3/4" NPT
R-75-1N	M75 x 1"NPT	80.00	85.00	15.00	23.00	M75×1.5	1" NPT
R-75-114N	M75 x 1 1/4"NPT	80.00	85.00	15.00	23.00	M75×1.5	1 1/4" NPT
R-75-112N	M75 x 1 1/2"NPT	80.00	85.00	15.00	23.00	M75×1.5	1 1/2" NPT
R-75-2N	M75 x 2"NPT	80.00	85.00	15.00	23.00	M75×1.5	2" NPT
R-90-114N	M90 x 1 1/4"NPT	95.00	100.00	15.00	23.00	M90×1.5	1 1/4" NPT
R-90-112N	M90 x 1 1/2"NPT	95.00	100.00	15.00	23.00	M90×1.5	1 1/2" NPT
R-90-2N	M90 x 2"NPT	95.00	100.00	15.00	23.00	M90×1.5	2" NPT
R-90-212N	M90 x 2 1/2"NPT	95.00	100.00	15.00	23.00	M90×1.5	2 1/2" NPT
R-100-112N	M100 x 1 1/2"NPT	110.00	120.00	15.00	23.00	M100×1.5	1 1/2" NPT
R-100-2N	M100 x 2"NPT	110.00	120.00	15.00	23.00	M100×1.5	2" NPT
R-100-212N	M100 x 2 1/2"NPT	110.00	120.00	15.00	23.00	M100×1.5	2 1/2" NPT
R-100-3N	M100 x 3"NPT	110.00	120.00	15.00	23.00	M100×1.5	3" NPT

Reducer						Metric to PG	
Code	Size	A/F	A/C	L1	L	T1	T2
R-20-PG7	M20 x PG7	24.00	26.20	15.00	23.00	M20×1.5	PG7
R-20-PG9	M20 x PG9	24.00	26.20	15.00	23.00	M20×1.5	PG9
R-25-PG7	M25 x PG7	30.00	33.00	15.00	23.00	M25×1.5	PG7
R-25-PG9	M25 x PG9	30.00	33.00	15.00	23.00	M25×1.5	PG9

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Reducer						Metric to PG	
Code	Size	A/F	A/C	L1	L	T1	T2
R-25-PG11	M25 x PG11	30.00	33.00	15.00	23.00	M25×1.5	PG11
R-32-PG9	M32 x PG9	36.00	39.20	15.00	23.00	M32×1.5	PG9
R-32-PG11	M32 x PG11	36.00	39.20	15.00	23.00	M32×1.5	PG11
R-32-PG13	M32 x PG13.5	36.00	39.20	15.00	23.00	M32×1.5	PG13.5
R-32-PG16	M32 x PG16	36.00	39.20	15.00	23.00	M32×1.5	PG16
R-40-PG11	M40 x PG11	46.00	50.60	15.00	23.00	M40×1.5	PG11
R-40-PG13	M40 x PG13.5	46.00	50.60	15.00	23.00	M40×1.5	PG13.5
R-40-PG16	M40 x PG16	46.00	50.60	15.00	23.00	M40×1.5	PG16
R-40-PG21	M40 x PG21	46.00	50.60	15.00	23.00	M40×1.5	PG21
R-50-PG11	M50 x PG11	55.00	60.00	15.00	23.00	M50×1.5	PG11
R-50-PG13	M50 x PG13.5	55.00	60.00	15.00	23.00	M50×1.5	PG13.5
R-50-PG16	M50 x PG16	55.00	60.00	15.00	23.00	M50×1.5	PG16
R-50-PG21	M50 x PG21	55.00	60.00	15.00	23.00	M50×1.5	PG21
R-50-PG29	M50 x PG29	55.00	60.00	15.00	23.00	M50×1.5	PG29
R-63-PG16	M63 x PG16	70.00	75.00	15.00	23.00	M63×1.5	PG16
R-63-PG21	M63 x PG21	70.00	75.00	15.00	23.00	M63×1.5	PG21
R-63-PG29	M63 x PG29	70.00	75.00	15.00	23.00	M63×1.5	PG29
R-63-PG36	M63 x PG36	70.00	75.00	15.00	23.00	M63×1.5	PG36
R-63-PG42	M63 x PG42	70.00	75.00	15.00	23.00	M63×1.5	PG42

Reducer						BSP (G) to Metric	
Code	Size	A/F	A/C	L1	L	T1	T2
R-12G-16	1/2"G × M16	24.00	26.20	15.00	23.00	1/2"G	M16×1.5
R-34G-16	3/4"G × M20	30.00	33.00	16.00	24.00	3/4"G	M16×1.5
R-34G-20	3/4"G × M20	30.00	33.00	16.00	24.00	3/4"G	M20×1.5
R-1G-16	1"G × M16	36.00	39.20	19.00	27.00	1"G	M16×1.5
R-1G-20	1"G × M20	36.00	39.20	19.00	27.00	1"G	M20×1.5
R-1G-25	1"G × M25	36.00	39.20	19.00	27.00	1"G	M25×1.5
R-114G-20	1 1/4"G × M20	46.00	50.60	20.00	28.00	1 1/4"G	M20×1.5
R-114G-25	1 1/4"G × M25	46.00	50.60	20.00	28.00	1 1/4"G	M25×1.5
R-114G-32	1 1/4"G × M32	46.00	50.60	20.00	28.00	1 1/4"G	M32×1.5
R-112G-20	1 1/2"G × M20	55.00	60.00	20.00	28.00	1 1/2"G	M20×1.5
R-112G-25	1 1/2"G × M25	55.00	60.00	20.00	28.00	1 1/2"G	M25×1.5
R-112G-32	1 1/2"G × M32	55.00	60.00	20.00	28.00	1 1/2"G	M32×1.5
R-112G-40	1 1/2"G × M40	55.00	60.00	20.00	28.00	1 1/2"G	M40×1.5
R-2G-20	2"G × M20	70.00	75.00	20.00	28.00	2"G	M20×1.5
R-2G-25	2"G × M25	70.00	75.00	20.00	28.00	2"G	M25×1.5
R-2G-32	2"G × M32	70.00	75.00	20.00	28.00	2"G	M32×1.5
R-2G-40	2"G × M40	70.00	75.00	20.00	28.00	2"G	M40×1.5
R-2G-50	2"G × M50	70.00	75.00	20.00	28.00	2"G	M50×1.5
R-212G-20	2 1/2"G × M20	80.00	85.00	20.00	28.00	2 1/2"G	M20×1.5
R-212G-25	2 1/2"G × M25	80.00	85.00	20.00	28.00	2 1/2"G	M25×1.5
R-212G-32	2 1/2"G × M32	80.00	85.00	20.00	28.00	2 1/2"G	M32×1.5
R-212G-40	2 1/2"G × M40	80.00	85.00	20.00	28.00	2 1/2"G	M40×1.5

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Reducer						BSP (G) to Metric	
Code	Size	A/F	A/C	L1	L	T1	T2
R-212G-50	2 1/2"G × M50	80.00	85.00	20.00	28.00	2 1/2"G	M50×1.5
R-212G-63	2 1/2"G × M63	80.00	85.00	20.00	28.00	2 1/2"G	M63×1.5
R-3G-20	3"G × M20	95.00	100.00	20.00	28.00	3"G	M20×1.5
R-3G-25	3"G × M25	95.00	100.00	20.00	28.00	3"G	M25×1.5
R-3G-32	3"G × M32	95.00	100.00	20.00	28.00	3"G	M32×1.5
R-3G-40	3"G × M40	95.00	100.00	20.00	28.00	3"G	M40×1.5
R-3G-50	3"G × M50	95.00	100.00	20.00	28.00	3"G	M50×1.5
R-3G-63	3"G × M63	95.00	100.00	20.00	28.00	3"G	M63×1.5
R-3G-75	3"G × M75	95.00	100.00	20.00	28.00	3"G	M75×1.5
R-312G-50	3 1/2"G × M50	110.00	120.00	20.00	28.00	3 1/2"G	M50×1.5
R-312G-63	3 1/2"G × M63	110.00	120.00	20.00	28.00	3 1/2"G	M63×1.5
R-312G-75	3 1/2"G × M75	110.00	120.00	20.00	28.00	3 1/2"G	M75×1.5
R-312G-90	3 1/2"G × M90	110.00	120.00	20.00	28.00	3 1/2"G	M90×1.5

Reducer						BSP (G) to BSP (G)	
Code	Size	A/F	A/C	L1	L	T1	T2
R-34G-12G	3/4"G × 1/2"G	30.00	33.00	16.00	24.00	3/4"G	1/2"G
R-1G-12G	1"G × 1/2"G	36.00	39.20	19.00	27.00	1"G	1/2"G
R-1G-34G	1"G × 3/4"G	36.00	39.20	19.00	27.00	1"G	3/4"G
R-114G-12G	1 1/4"G × 1/2"G	46.00	50.60	20.00	28.00	1 1/4"G	1/2"G
R-114G-34G	1 1/4"G × 3/4"G	46.00	50.60	20.00	28.00	1 1/4"G	3/4"G
R-114G-1G	1 1/4"G × 1"G	46.00	50.60	20.00	28.00	1 1/4"G	1"G
R-112G-12G	1 1/2"G × 1/2"G	55.00	60.00	20.00	28.00	1 1/2"G	1/2"G
R-112G-34G	1 1/2"G × 3/4"G	55.00	60.00	20.00	28.00	1 1/2"G	3/4"G
R-112G-1G	1 1/2"G × 1"G	55.00	60.00	20.00	28.00	1 1/2"G	1"G
R-112G-114G	1 1/2"G × 1 1/4"G	55.00	60.00	20.00	28.00	1 1/2"G	1 1/4"G
R-2G-12G	2"G × 1/2"G	70.00	75.00	20.00	28.00	2"G	1/2"G
R-2G-34G	2"G × 3/4"G	70.00	75.00	20.00	28.00	2"G	3/4"G
R-2G-1G	2"G × 1"G	70.00	75.00	20.00	28.00	2"G	1"G
R-2G-114G	2"G × 1 1/4"G	70.00	75.00	20.00	28.00	2"G	1 1/4"G
R-2G-112G	2"G × 1 1/2"G	70.00	75.00	20.00	28.00	2"G	1 1/2"G
R-212G-12G	2 1/2"G × 1/2"G	80.00	85.00	20.00	28.00	2 1/2"G	1/2"G
R-212G-34G	2 1/2"G × 3/4"G	80.00	85.00	20.00	28.00	2 1/2"G	3/4"G
R-212G-1G	2 1/2"G × 1"G	80.00	85.00	20.00	28.00	2 1/2"G	1"G
R-212G-114G	2 1/2"G × 1 1/4"G	80.00	85.00	20.00	28.00	2 1/2"G	1 1/4"G
R-212G-112G	2 1/2"G × 1 1/2"G	80.00	85.00	20.00	28.00	2 1/2"G	1 1/2"G
R-212G-2G	2 1/2"G × 2"G	80.00	85.00	20.00	28.00	2 1/2"G	2"G
R-3G-12G	3"G × 1/2"G	95.00	100.00	20.00	28.00	3"G	1/2"G
R-3G-34G	3"G × 3/4"G	95.00	100.00	20.00	28.00	3"G	3/4"G
R-3G-1G	3"G × 1"G	95.00	100.00	20.00	28.00	3"G	1"G
R-3G-114G	3"G × 1 1/4"G	95.00	100.00	20.00	28.00	3"G	1 1/4"G
R-3G-112G	3"G × 1 1/2"G	95.00	100.00	20.00	28.00	3"G	1 1/2"G
R-3G-2G	3"G × 2"G	95.00	100.00	20.00	28.00	3"G	2"G
R-3G-212G	3"G × 21/2"G	95.00	100.00	20.00	28.00	3"G	2 1/2"G

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Reducer						BSP (G) to BSP (G)	
Code	Size	A/F	A/C	L1	L	T1	T2
R-312G-112G	3 1/2"G × 1 1/2"G	110.00	120.00	20.00	28.00	3 1/2"G	1 1/2"G
R-312G-2G	3 1/2"G × 2"G	110.00	120.00	20.00	28.00	3 1/2"G	2"G
R-312G-212G	3 1/2"G × 2 1/2"G	110.00	120.00	20.00	28.00	3 1/2"G	2 1/2"G
R-312G-3G	3 1/2"G × 3"G	110.00	120.00	20.00	28.00	3 1/2"G	3"G

Reducer						PG to PG	
Code	Size	A/F	A/C	L1	L	T1	T2
R-PG11-7	PG11 × PG7	22.00	24.00	15.00	23.00	PG11	PG7
R-PG13-7	PG13.5 × PG7	24.00	26.20	15.00	23.00	PG13.5	PG7
R-PG13-9	PG13.5 × PG9	24.00	26.20	15.00	23.00	PG13.5	PG9
R-PG16-7	PG16 × PG7	30.00	33.00	15.00	23.00	PG16	PG7
R-PG16-9	PG16 × PG9	30.00	33.00	15.00	23.00	PG16	PG9
R-PG16-11	PG16 × PG11	30.00	33.00	15.00	23.00	PG16	PG11
R-PG21-9	PG21 × PG9	30.00	33.00	15.00	23.00	PG21	PG9
R-PG21-11	PG21 × PG11	30.00	33.00	15.00	23.00	PG21	PG11
R-PG21-13	PG21 × PG13.5	30.00	33.00	15.00	23.00	PG21	PG13.5
R-PG21-16	PG21 × PG16	30.00	33.00	15.00	23.00	PG21	PG16
R-PG29-9	PG29 × PG9	46.00	50.60	15.00	23.00	PG29	PG9
R-PG29-11	PG29 × PG11	46.00	50.60	15.00	23.00	PG29	PG11
R-PG29-13	PG29 × PG13.5	46.00	50.60	15.00	23.00	PG29	PG13.5
R-PG29-16	PG29 × PG16	46.00	50.60	15.00	23.00	PG29	PG16
R-PG29-21	PG29 × PG21	46.00	50.60	15.00	23.00	PG29	PG21
R-PG36-11	PG36 × PG11	55.00	60.00	15.00	23.00	PG36	PG11
R-PG36-13	PG36 × PG13.5	55.00	60.00	15.00	23.00	PG36	PG13.5
R-PG36-16	PG36 × PG16	55.00	60.00	15.00	23.00	PG36	PG16
R-PG36-21	PG36 × PG21	55.00	60.00	15.00	23.00	PG36	PG21
R-PG36-29	PG36 × PG29	55.00	60.00	15.00	23.00	PG36	PG29
R-PG42-13	PG42 × PG13.5	60.00	65.00	15.00	23.00	PG42	PG13.5
R-PG42-16	PG42 × PG16	60.00	65.00	15.00	23.00	PG42	PG16
R-PG42-21	PG42 × PG21	60.00	65.00	15.00	23.00	PG42	PG21
R-PG42-29	PG42 × PG29	60.00	65.00	15.00	23.00	PG42	PG29
R-PG42-36	PG42 × PG36	60.00	65.00	15.00	23.00	PG42	PG36
R-PG48-16	PG48 × PG16	65.00	70.00	15.00	23.00	PG48	PG16
R-PG48-21	PG48 × PG21	65.00	70.00	15.00	23.00	PG48	PG21
R-PG48-29	PG48 × PG29	65.00	70.00	15.00	23.00	PG48	PG29
R-PG48-36	PG48 × PG36	65.00	70.00	15.00	23.00	PG48	PG36

Reducer						NPT to Metric	
Code	Size	A/F	A/C	L1	L	T1	T2
R-12N-16	1/2"NPT × M16	24.00	26.20	16.00	24.00	1/2" NPT	M16×1.5
R-34N-16	3/4"NPT × M16	30.00	33.00	16.00	24.00	3/4" NPT	M16×1.5
R-34N-20	3/4"NPT × M20	30.00	33.00	16.00	24.00	3/4" NPT	M20×1.5
R-1N-16	1"NPT × M16	36.00	39.20	19.00	27.00	1" NPT	M16×1.5
R-1N-20	1"NPT × M20	36.00	39.20	19.00	27.00	1" NPT	M20×1.5

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		Reducer			NPT to Metric		
Code	Size	A/F	A/C	L1	L	T1	T2
R-1N-25	1"NPT × M25	36.00	39.20	19.00	27.00	1" NPT	M25×1.5
R-114N-20	1 1/4"NPT × M20	46.00	50.60	20.00	28.00	1 1/4" NPT	M20×1.5
R-114N-25	1 1/4"NPT × M25	46.00	50.60	20.00	28.00	1 1/4" NPT	M25×1.5
R-114N-32	1 1/4"NPT × M32	46.00	50.60	20.00	28.00	1 1/4" NPT	M32×1.5
R-112N-20	1 1/2"NPT × M20	55.00	60.00	20.00	28.00	1 1/2" NPT	M20×1.5
R-112N-25	1 1/2"NPT × M25	55.00	60.00	20.00	28.00	1 1/2" NPT	M25×1.5
R-112N-32	1 1/2"NPT × M32	55.00	60.00	20.00	28.00	1 1/2" NPT	M32×1.5
R-112N-40	1 1/2"NPT × M40	55.00	60.00	20.00	28.00	1 1/2" NPT	M40×1.5
R-2N-20	2"NPT × M20	70.00	75.00	20.00	28.00	2" NPT	M20×1.5
R-2N-25	2"NPT × M25	70.00	75.00	20.00	28.00	2" NPT	M25×1.5
R-2N-32	2"NPT × M32	70.00	75.00	20.00	28.00	2" NPT	M32×1.5
R-2N-40	2"NPT × M40	70.00	75.00	20.00	28.00	2" NPT	M40×1.5
R-2N-50	2"NPT × M50	70.00	75.00	20.00	28.00	2" NPT	M50×1.5
R-212N-25	2 1/2"NPT × M25	80.00	85.00	20.00	28.00	2 1/2" NPT	M25×1.5
R-212N-32	2 1/2"NPT × M32	80.00	85.00	20.00	28.00	2 1/2" NPT	M32×1.5
R-212N-40	2 1/2"NPT × M40	80.00	85.00	20.00	28.00	2 1/2" NPT	M40×1.5
R-212N-50	2 1/2"NPT × M50	80.00	85.00	20.00	28.00	2 1/2" NPT	M50×1.5
R-212N-63	2 1/2"NPT × M63	80.00	85.00	20.00	28.00	2 1/2" NPT	M63×1.5
R-3N-25	3"NPT × M25	95.00	100.00	20.00	28.00	3" NPT	M25×1.5
R-3N-32	3"NPT × M32	95.00	100.00	20.00	28.00	3" NPT	M32×1.5
R-3N-40	3"NPT × M40	95.00	100.00	20.00	28.00	3" NPT	M40×1.5
R-3N-50	3"NPT × M50	95.00	100.00	20.00	28.00	3" NPT	M50×1.5
R-3N-63	3"NPT × M63	95.00	100.00	20.00	28.00	3" NPT	M63×1.5
R-3N-75	3"NPT × M75	95.00	100.00	20.00	28.00	3" NPT	M75×1.5

		Reducer			NPT to NPT		
Code	Size	A/F	A/C	L1	L	T1	T2
R-34N-12N	3/4"NPT × 1/2"NPT	30.00	33.00	20.00	28.00	3/4" NPT	1/2" NPT
R-1N-12N	1"NPT × 1/2NPT	36.00	39.20	20.00	28.00	1" NPT	1/2" NPT
R-1N-34N	1"NPT × 3/4"NPT	36.00	39.20	20.00	28.00	1" NPT	3/4" NPT
R-114N-12N	1 1/4"NPT × 1/2"NPT	46.00	50.60	20.00	28.00	1 1/4" NPT	1/2" NPT
R-114N-34N	1 1/4"NPT × 3/4"NPT	46.00	50.60	20.00	28.00	1 1/4" NPT	3/4" NPT
R-114N-1N	1 1/4"NPT × 1"NPT	46.00	50.60	20.00	28.00	1 1/4" NPT	1" NPT
R-112N-12N	1 1/2"NPT x 1/2"NPT	55.00	60.00	20.00	28.00	1 1/2" NPT	1/2" NPT
R-112N-34N	1 1/2"NPT x 3/4"NPT	55.00	60.00	20.00	28.00	1 1/2" NPT	3/4" NPT
R-112N-1N	1 1/2"NPT x 1"NPT	55.00	60.00	20.00	28.00	1 1/2" NPT	1" NPT
R-112N-114N	1 1/2"NPT x 1 1/4"NPT	55.00	60.00	20.00	28.00	1 1/2" NPT	1 1/4" NPT
R-2N-12N	2"NPT x 1/2"NPT	70.00	75.00	20.00	28.00	2" NPT	1/2" NPT
R-2N-34N	2"NPT x 3/4"NPT	70.00	75.00	20.00	28.00	2" NPT	3/4" NPT
R-2N-1N	2"NPT x 1"NPT	70.00	75.00	20.00	28.00	2" NPT	1" NPT
R-2N-114N	2"NPT x 1 1/4"NPT	70.00	75.00	20.00	28.00	2" NPT	1 1/4" NPT
R-2N-112N	2"NPT x 1 1/2"NPT	70.00	75.00	20.00	28.00	2" NPT	1 1/2" NPT
R-212N-12N	2 1/2"NPT x 1/2"NPT	80.00	85.00	20.00	28.00	2 1/2" NPT	1/2" NPT
R-212N-34N	2 1/2"NPT x 3/4"NPT	80.00	85.00	20.00	28.00	2 1/2" NPT	3/4" NPT

continue...

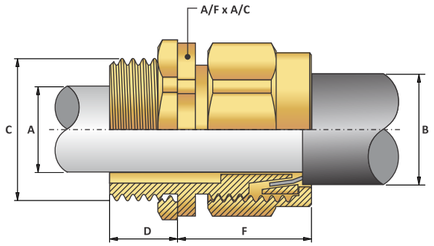
		Reducer			NPT to NPT		
Code	Size	A/F	A/C	L1	L	T1	T2
R-212N-1N	2 1/2"NPT x 1"NPT	80.00	85.00	20.00	28.00	2 1/2" NPT	1" NPT
R-212N-114N	2 1/2"NPT x 1 1/4"NPT	80.00	85.00	20.00	28.00	2 1/2" NPT	1 1/4" NPT
R-212N-112N	2 1/2"NPT x 1 1/2"NPT	80.00	85.00	20.00	28.00	2 1/2" NPT	1 1/2" NPT
R-212N-2N	2 1/2"NPT x 2"NPT	80.00	85.00	20.00	28.00	2 1/2" NPT	2" NPT
R-3N-12N	3"NPT x 1/2"NPT	95.00	100.00	20.00	28.00	3" NPT	1/2" NPT
R-3N-34N	3"NPT x 3/4"NPT	95.00	100.00	20.00	28.00	3" NPT	3/4" NPT
R-3N-1N	3"NPT x 1"NPT	95.00	100.00	20.00	28.00	3" NPT	1" NPT
R-3N-114N	3"NPT x 1 1/4"NPT	95.00	100.00	20.00	28.00	3" NPT	1 1/4" NPT
R-3N-112N	3"NPT x 1 1/2"NPT	95.00	100.00	20.00	28.00	3" NPT	1 1/2" NPT
R-3N-2N	3"NPT x 2"NPT	95.00	100.00	20.00	28.00	3" NPT	2" NPT
R-3N-212N	3"NPT x 2 1/2"NPT	95.00	100.00	20.00	28.00	3" NPT	2 1/2" NPT

Industrial

Cable Gland

Bw-4 Part Cable Gland

Size	:	20mm to 90mm	**Material**	:	Brass CW614N
Standard	:	BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010	**Thread**	:	Metric
Function	:	Provides mechanical cable retention & electrical continuity via armoured wire termination in indoor area.	**Operating Temp.**	:	-60°C to +200°C
			Cable Type	:	Single Wire Armour (SWA) Cable
Ingress Protection	:	IP2X	**Features**	:	Armoured Ring
			Accessories	:	PVC Shroud, Earth Tag



Gland Selection Chart

Size	Standard Thread Size "C"	Thread Length "D"	Cable Diameter		Armour Wire Dia.	Protrusion Length "F"	A/F	A/C
	Metric		Max. "A"	Max. "B"				
20S	20	10.00	12.50	16.00	0.9-1.25	17.00	22.00	24.25
20	20	10.00	15.00	20.00	0.9-1.25	17.50	24.00	26.20
25S	25	10.00	18.50	24.00	1.25-1.60	19.00	30.00	33.00
25	25	10.00	20.50	27.00	1.25-1.60	20.25	32.00	35.00
32S	32	10.00	27.25	34.00	1.60-2.00	20.50	40.50	45.00
32	32	10.00	27.25	34.00	1.60-2.00	20.50	40.50	45.00
40S	40	14.00	31.00	37.50	1.60-2.00	21.00	44.50	50.00
40	40	14.00	34.50	41.00	1.60-2.00	22.00	47.50	52.00
50S	50	14.00	41.00	48.00	2.00-2.50	21.50	56.50	61.50
50	50	14.00	44.50	54.00	2.00-2.50	24.25	61.00	65.00
63S	63	15.00	51.50	59.00	2.50	26.00	67.50	72.00
63	63	15.00	56.75	65.00	2.50	26.00	75.00	80.00
75S	75	15.00	64.00	72.00	2.50	29.25	85.00	90.00
75	75	15.00	69.00	78.00	2.50-3.15	30.25	90.00	95.00
90s	90	16.00	80.00	90.00	3.15	36.50	100.00	110.00
90	90	16.00	80.00	90.00	3.15	36.50	100.00	110.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20S	BW4P	Brass-1	Standard Metric-11	PVC Shroud-PS	IP Washer-6
		Nickel Plated-3		Dip Moulding Shroud-DS	
				LSF Shroud-LS	

How to Order ?

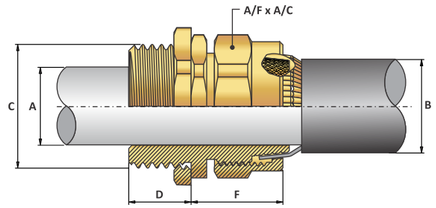
Item Code: 20s16BW4P1 11 PS 5
Code Meaning : Brass BW4P 20s16 Cable Gland.

20s16=Gland Size, BW4P=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

BW Cable Gland

Size : 20mm to 90mm
Standard : BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010
Function : Provides mechanical cable retention & electrical continuity via armoured wire termination in indoor area. It is easy to install.
Ingress Protection : IP2X

Material : Brass CW614N
Thread : Metric
Operating Temp. : -60°C to +200°C
Cable Type : Single Wire Armour (SWA) Cable
Features : Two Part Armour Lock
Accessories : PVC Shroud, Earth Tag, Galvanized Steel Lock Nut



Gland Selection Chart

Size	Standard Thread Size "C" Metric	Thread Length "D"	Cable Dia. "A" Max.	Cable Dia. "B" Max.	Armour Wire Dia.	Protrusion Length "F"	A/F	A/C
20S	20	10.00	12.50	16.00	0.9-1.25	15.70	24.00	26.20
20	20	10.00	15.00	20.00	1.25-1.60	17.20	24.00	26.20
25	25	10.00	20.50	27.50	1.60-2.00	25.20	32.00	35.00
32	32	10.00	27.25	34.50	1.60-2.00	21.50	40.50	45.00
40	40	15.00	33.30	41.50	2.0-2.50	23.20	48.00	52.00
50S	50	15.00	38.50	47.00	2.0-2.50	26.80	55.00	60.00
50	50	15.00	44.50	52.00	2.50	27.20	61.00	65.00
63S	63	15.00	51.00	59.20	2.50	27.50	70.00	75.00
63	63	15.00	56.80	65.50	2.50	28.50	75.00	80.00
75S	75	15.00	64.00	74.00	2.5-3.15	29.40	85.00	90.00
75	75	15.00	68.20	79.50	3.15	30.00	90.00	95.00
82	82	15.00	74.70	84.40	3.15	40.20	96.50	103.00
90	90	15.00	82.80	91.00	3.15	40.00	109.00	118.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s	BW2P	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Nickel Plated-3		Dip Moulding Shroud-DS	IP Washer-6
				LSF Shroud-LS	

How to Order ?

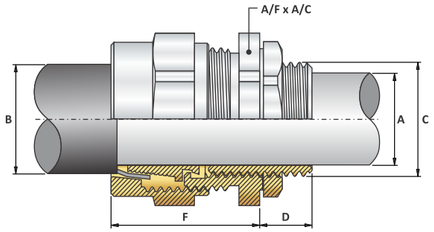
Item Code: 20sBW2P1 11 PS 5
Code Meaning: Brass BW2P 20s Cable Gland.

20s=Gland Size, BW2P=Gland Code,
1= With Brass Material,11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

BWR Rotary Cable Gland

Size : 00 to 08
Function : Providing mechanical cable retention & electrical continuity via armoured wire termination and protect armour wire in dry indoor area for SWA cable.
Features : Easy to Install, Rotary Cone, Nickel Plated
Ingress Protection : IP2X

Thread : Metric
Operating Temp. : -60°C to +200°C
Cable Type : Single Wire Armour (SWA) Cable
Material : Nickel Plated Brass CW614N
Accessories : Earth Tag, PVC Shroud



Gland Selection Chart

Gland Size	Thread "C"	Thread Length "D"	Cable Dia. "A" Min.	Cable Dia. "B" Max.	Protrusion Length "F	A/F	A/C
00	M20	16.00	12.00	16.00	28.50	22.00	24.00
01	M20	10.00	14.00	21.20	30.00	27.00	29.50
02	M25	10.00	20.20	27.00	32.00	35.00	38.00
03	M32	10.00	26.20	33.40	37.50	42.00	45.00
04	M40	15.00	32.50	39.80	42.25	52.00	58.00
05	M50	15.00	44.40	52.50	49.00	63.00	70.00
06	M63	15.00	55.30	65.50	49.50	80.00	85.00
07	M75	15.00	69.50	79.00	58.70	95.00	100.00
08	M80	15.00	74.00	84.00	38.00	95.00	100.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type
00	BWR	Nickel Plated-3	Standard Metric-11	PVC Shroud-PS
				Dip Moulding Shroud-DS
				LSF Shroud-LS

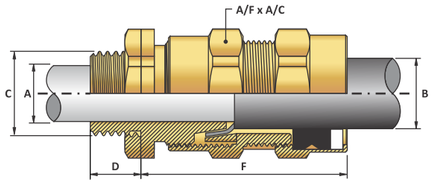
How to Order ?

Item Code: 00BWR 3 11 PS
Code Meaning: Nickel Plated BWR00 Cable Gland.

00=Gland Size, BWR=Gland Code,
3= With Nickel Plated Brass Material,
11=With Standard Metric Thread, PS= With PVC Shroud.

CW-4 Part Cable Gland

Size	: 16mm to 90mm & ½" to 3½"	**Material**	: Brass CW614N, Stainless Steel 316L
Standard	: BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010	**Thread**	: Metric, NPT
Function	: Providing environmental seal on the cable outer sheath. Also provides mechanical cable retention & electrical continuity via armoured wire termination in indoor and outdoor area with all types of SWA cable.	**Operating Temp.**	: -20°C to +80°C
		Cable Type	: Single Wire Armour (SWA) Cable
		Seal Material	: Neoprene
		Features	: Armoured Ring and Outer Compression Seal
		Accessories	: PVC Shroud, Earth Tag, Serrated Washer and Entry Thread Seal
Ingress Protection	: IP66		



Gland Selection Chart

Size	Standard Thread Size "C"		Thread Length "D"	Cable Dia. "A" Max.	Cable Dia. "B"		Armour Wire Dia.	Protrusion Length "F"	A/F	A/C
	Metric	NPT			Min.	Max.				
20S16	20	½"	10.00	12.50	6.60	13.50	0.90	35.00	22.00	24.25
20S	20	½"	10.00	12.50	10.20	16.00	0.9-1.25	35.00	22.00	24.25
20	20	½"	10.00	15.00	13.80	20.80	0.9-1.25	34.25	26.00	28.75
25S	25	¾"	10.00	18.50	16.50	24.00	1.20-1.60	37.50	30.00	33.00
25	25	¾"	10.00	20.50	21.90	27.00	1.20-1.60	38.50	34.00	38.00
32S	32	1"	10.00	27.25	25.80	34.25	1.60-2.00	39.50	40.50	45.00
32	32	1"	10.00	27.25	25.80	34.25	1.60-2.00	39.50	40.50	45.00
40S	40	1¼"	14.00	31.00	30.50	38.50	1.60-2.00	43.75	44.50	50.00
40	40	1¼"	14.00	34.50	32.50	41.00	1.60-2.00	45.50	47.50	52.00
50S	50	1½"	14.00	41.00	37.70	47.00	2.00-2.50	49.00	56.50	61.50
50	50	2"	14.00	44.50	43.00	53.50	2.00-2.50	49.00	61.00	65.00
63S	63	2"	15.00	51.50	48.50	59.00	2.50	54.75	68.00	73.00
63	63	2½"	15.00	56.75	54.50	65.00	2.50	53.50	75.00	80.00
75S	75	2½"	15.00	64.00	62.75	72.00	2.50	58.25	83.50	89.00
75	75	3"	15.00	69.00	68.19	79.00	2.50-3.15	59.75	90.00	95.00
90S	90	3½"	16.00	80.00	75.00	86.00	2.50-3.15	71.75	100.00	110.00
90	90	3½"	16.00	80.00	75.00	86.00	2.50-3.15	71.75	100.00	110.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	CW4P	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	
			Optional NPT-17		

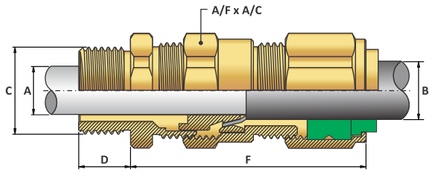
How to Order ?

Item Code: 20s16CW4P1 11 PS 5
Code Meaning : Brass CW4P 20s16 Cable Gland.

20s16=Gland Size, CW4P=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

CW Cable Gland

Size	: 16mm to 90mm & ½" to 3½"	**Material**	: Brass CW614N, Stainless Steel 316L
Standard	: BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010	**Thread**	: Metric, NPT
Function	: Providing environmental seal on the cable outer sheath. Also provides mechanical cable retention & electrical continuity via armoured wire termination in indoor and outdoor area with all types of SWA cable.	**Operating Temp.**	: -60°C to +125°C
		Cable Type	: Single Wire Armour (SWA) Cable
		Seal Material	: LSOH Silicone Seal & LSOH Nylon Washer
		Features	: Universal Anyway Clamping Ring, Outer Compression Seal
		Accessories	: PVC Shroud, Earth Tag, Entry Thread Seal
Ingress Protection	: IP66		



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread		Thread Length "D"	Cable Dia. "A" Max.	Cable Dia. "B"		Armour Wire Dia.	Protrusion Length "F"	A/F	A/C
	Metric	NPT	Metric	NPT			Min.	Max.				
20S16	20	½"	25	¾"	10.00	9.00	6.10	13.10	0.90	44.15	24.00	26.20
20S	20	½"	25	¾"	10.00	12.00	9.50	15.90	0.9-1.25	44.15	24.00	26.20
20	20	½"	25	¾"	10.00	14.20	12.50	20.90	0.9-1.25	47.15	30.00	33.00
25S	25	¾"	32	1"	10.00	20.00	14.00	22.00	1.20-1.60	53.85	36.00	39.20
25	25	¾"	32	1"	10.00	20.00	19.90	26.20	1.20-1.60	53.85	36.00	39.20
32	32	1"	40	1¼"	10.00	27.00	23.70	33.90	1.60-2.00	54.30	46.00	50.60
40	40	1¼"	50	1½"	15.00	33.00	27.90	40.40	1.60-2.00	56.90	55.00	60.00
50S	50	1½"	63	2"	15.00	38.50	35.20	46.70	2.00-2.50	55.75	60.00	65.00
50	50	2"	63	2½"	15.00	44.30	40.40	53.00	2.00-2.50	55.00	70.00	75.00
63S	63	2"	75	2½"	15.00	50.50	45.60	59.40	2.50	57.25	75.00	80.00
63	63	2½"	75	3"	15.00	56.50	54.60	65.80	2.50	59.75	80.00	85.00
75S	75	2½"	90	3"	15.00	62.50	59.00	72.00	2.50	65.50	90.00	95.00
75	75	3"	90	3½"	15.00	68.30	66.70	78.40	2.50	67.75	100.00	110.00
90	90	3½"	100	4"	20.00	80.50	76.20	90.30	2.50-3.15	77.00	112.00	122.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	CWCM	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	
			Optional NPT-17		

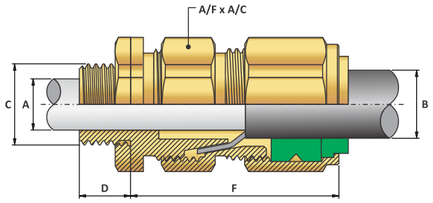
How to Order ?

Item Code: 20s16CWCM1 11 PS 5
Code Meaning: Brass CWCM 20s16 Cable Gland

20s16=Gland Size, CWCM=Gland Code,
1= With Brass Material,11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

CW Cable Gland

Size	: 16mm to 90mm & ½" to 3½"	**Material**	: Brass CW614N, Stainless Steel 316L
Standard	: BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010	**Thread**	: Metric, NPT
Function	: Providing environmental seal on the cable outer sheath. Also provides mechanical cable retention & electrical continuity via armoured wire termination in indoor and outdoor area with all types of SWA cable.	**Operating Temp.**	: -60°C to +125°C
		Cable Type	: Single Wire Armour (SWA) Cable
		Seal Material	: LSOH Silicone Seal & LSOH Nylon Washer
		Features	: Two Part Armour Lock, Outer Compression Seal
Ingress Protection	: IP66	**Accessories**	: PVC Shroud, Earth Tag, Entry Thread Seal



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread		Thread Length "D"	Cable Dia. "A" Max.	Cable Dia. "B"		Armour Wire Dia.	Protrusion Length "F"	A/F	A/C
	Metric	NPT	Metric	NPT			Min.	Max.				
20s16	20	½"	25	¾"	10.00	9.00	6.10	13.10	0.90	42.40	24.00	26.20
20S	20	½"	25	¾"	10.00	12.00	9.50	15.90	0.9-1.25	42.40	24.00	26.20
20	20	½"	25	¾"	10.00	14.20	12.50	20.90	0.9-1.25	45.40	30.00	33.00
25S	25	¾"	32	1"	10.00	20.00	14.00	22.00	1.20-1.60	52.60	36.00	39.20
25	25	¾"	32	1"	10.00	20.00	19.90	26.20	1.20-1.60	52.60	36.00	39.20
32	32	1"	40	1¼"	10.00	27.00	23.70	33.90	1.60-2.00	53.00	46.00	50.60
40	40	1¼"	50	1½"	15.00	33.00	27.90	40.40	1.60-2.00	55.60	55.00	60.00
50S	50	1½"	63	2"	15.00	38.50	35.20	46.70	2.00-2.50	54.50	60.00	65.00
50	50	2"	63	2½"	15.00	44.30	40.40	53.00	2.00-2.50	54.00	70.00	75.00
63S	63	2"	75	2½"	15.00	50.50	45.60	59.40	2.50	56.70	75.00	80.00
63	63	2½"	75	3"	15.00	56.50	54.60	65.80	2.50	59.00	80.00	85.00
75S	75	2½"	90	3"	15.00	62.50	59.00	72.00	2.50	65.50	90.00	95.00
75	75	3"	90	3½"	15.00	68.30	66.70	78.40	2.50	67.70	100.00	110.00
90	90	3½"	100	4"	20.00	80.50	76.20	90.30	2.50-3.15	87.50	112.00	122.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	CW3P	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	
			Optional NPT-17		

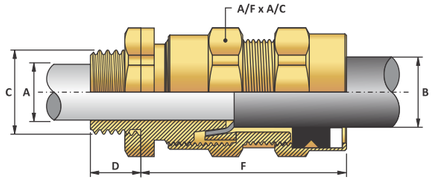
How to Order ?

Item Code: 20s16CW3P1 11 PS 5
Code Meaning: Brass CW3P 20s16 Cable Gland.

20s16=Gland Size, CW3P=Gland Code,
1= With Brass Material,11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

CX Cable Gland

Size	: 16mm to 90mm & ½" to 3½"	**Thread**	: Metric, NPT
Standard	: BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010	**Operating Temp.**	: -20°C to +80°C
Function	: Providing environmental seal on the cable outer sheath. Also provides mechanical cable retention & electrical continuity via armoured wire termination in indoor and outdoor area with all types of SWA cable.	**Cable Type**	: Wire Braid Armour, Screened Flexible Wire Braid (CY/SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA)
		Seal Material	: Neoprene
		Features	: Armoured Ring
Ingress Protection	: IP66	**Accessories**	: PVC Shroud, Earth Tag, Serrated Washer and Entry Thread Seal
Material	: Brass CW614N, Stainless Steel 316L		



Gland Selection Chart

Size	Thread Size "C"		Optional Thread		Thread Length "D"	Cable Dia. "A" Min.	Cable Dia. "B"		Armour Wire Dia.	Protrusion Length "F"	A/F	A/C
	Metric	NPT	Metric	NPT			Min.	Max.				
20S16	20	½"	25	¾"	10.00	12.50	6.60	13.50	0.3-1.0	35.00	22.00	24.25
20S	20	½"	25	¾"	10.00	12.50	10.20	16.00	0.3-1.0	35.00	22.00	24.25
20	20	½"	25	¾"	10.00	15.00	13.80	20.80	0.4-1.0	34.25	26.00	28.75
25S	25	¾"	32	1"	10.00	18.50	16.50	24.00	0.4-1.2	37.50	30.00	33.00
25	25	¾"	32	1"	10.00	20.50	21.90	27.00	0.4-1.2	38.50	34.00	38.00
32S	32	1"	40	1¼"	10.00	27.25	25.80	34.25	0.4-1.2	39.50	40.50	45.00
32	32	1"	40	1¼"	10.00	27.25	25.80	34.25	0.4-1.2	39.50	40.50	45.00
40S	40	1¼"	50	1½"	14.00	31.00	30.50	38.50	0.4-1.6	43.75	44.50	50.00
40	40	1¼"	50	2"	14.00	34.50	32.50	41.00	0.4-1.6	45.50	47.50	52.00
50S	50	1½"	63	2"	14.00	41.00	37.70	47.00	0.4-1.6	49.00	56.50	61.50
50	50	2"	63	2½"	14.00	44.50	43.00	53.50	0.6-1.6	49.00	61.00	65.00
63S	63	2"	75	2½"	15.00	51.50	48.50	59.00	0.6-1.6	54.75	68.00	73.00
63	63	2½"	75	3"	15.00	56.75	54.50	65.00	0.6-1.6	53.50	75.00	80.00
75S	75	2½"	90	3½"	15.00	64.00	62.75	72.00	0.6-1.6	58.25	83.50	89.00
75	75	3"	90	3½"	15.00	69.00	68.19	79.00	0.6-1.6	59.75	90.00	95.00
90S	90	3½"	100	4"	16.00	80.00	75.00	86.00	0.8-1.6	71.75	100.00	110.00
90	90	3½"	100	4"	16.00	80.00	75.00	86.00	0.8-1.6	71.75	100.00	110.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	CX	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	
			Optional NPT-17		

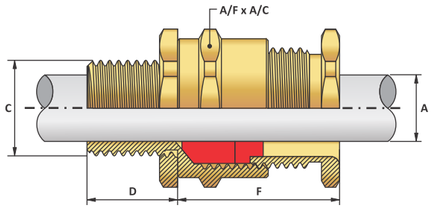
How to Order ?

Item Code: 20s16CX 1 11 PS 5
Code Meaning: Brass CX 20s16 Cable Gland.

20s16=Gland Size, CX=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

A2 Cable Gland

Size	: 16mm to 115mm & ½" to 4"	**Thread**	: Metric, NPT
Standard	: BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010	**Operating Temp.**	: -60°C to +125°C
Function	: Providing seal on outer sheaths of all types of unarmoured cable in indoor and outdoor area.	**Cable Type**	: Unarmoured Cable
Ingress Protection	: IP66	**Features**	: Outer Displacement Seal
Material	: Brass CW614N, Stainless Steel 316L	**Seal Material**	: LSOH Silicone Seal & LSOH Nylon Washer
		Accessories	: PVC Shroud, Earth Tag, Thread Seal, Serrated Washer



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread		Thread Length "D"	Cable Dia. A		Protrusion Length "F"	A/F	A/C
	Metric	NPT	Metric	NPT		Min.	Max.			
20s16	20	½"	25	¾"	10.00	3.10	8.60	25.75	24.00	26.20
20S	20	½"	25	¾"	10.00	6.10	11.70	25.75	24.00	26.20
20	20	½"	25	¾"	10.00	6.50	13.90	26.25	27.00	29.50
25	25	¾"	32	1"	10.00	11.30	19.90	34.00	36.00	39.20
32	32	1"	40	1¼"	10.00	17.00	26.20	35.00	41.00	45.00
40	40	1¼"	50	1½"	15.00	23.60	32.10	35.00	49.00	53.00
50S	50	1½"	63	2"	15.00	31.50	38.20	33.00	54.50	60.00
50	50	2"	63	2½"	15.00	35.80	44.00	37.00	60.00	65.00
63S	63	2"	75	2½"	15.00	41.70	50.00	34.25	67.50	72.00
63	63	2½"	75	3"	15.00	47.50	56.00	37.25	75.00	80.00
75S	75	2½"	90	3"	15.00	55.00	62.00	40.75	80.00	85.00
75	75	3"	90	3½"	15.00	62.00	68.00	44.00	84.00	90.00
90	90	3½"	100	4"	18.00	67.00	79.00	51.50	106.00	114.00
100	100	4"	-	-	20.00	77.00	91.00	56.00	122.00	130.00
110	110	-	-	-	20.00	86.00	100.00	54.50	138.00	146.00
115	115	-	-	-	20.00	86.00	102.00	54.50	138.00	146.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	A2	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	
			Optional NPT-17		

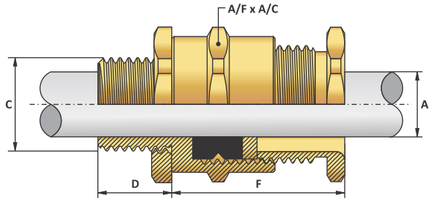
How to Order ?

Item Code: 20s16A2 1 11 PS 5
Code Meaning: Brass A2 20s16 Cable Gland.

20s16=Gland Size, A2=Gland Code,
1= With Brass Material,11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

A1A2 Cable Gland

Size	: 16mm to 90mm & ½" to 3½"	**Thread**	: Metric, NPT
Standard	: BS 6121: Part-1:2005, EN 50262: 1999, IEC62444:2010	**Operating Temp.**	: -20°C to +80°C
Function	: Providing seal on outer sheaths of all types of unarmoured cable in indoor and outdoor area.	**Features**	: Compression Seal
Ingress Protection	: IP66	**Cable Type**	: Unarmoured Cable
Material	: Brass CW614N, Stainless Steel 316L	**Seal Material**	: Neoprene Seal
		Accessories	: PVC Shroud, Earth Tag, Thread Seal, Serrated Washer



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread		Thread Length "D"	Cable Dia. A		Protrusion Length "F"	A/F	A/C
	Metric	NPT	Metric	NPT		Min.	Max.			
20s16	20	½"	25	¾"	10.00	3.10	8.60	25.75	24.00	26.20
20S	20	½"	25	¾"	10.00	6.10	11.70	25.75	24.00	26.20
20	20	½"	25	¾"	10.00	6.50	13.90	26.25	27.00	29.50
25	25	¾"	32	1"	10.00	11.30	19.90	34.00	36.00	39.20
32	32	1"	40	1¼"	10.00	17.00	26.20	35.00	41.00	45.00
40	40	1¼"	50	1½"	15.00	23.60	32.10	35.00	49.00	53.00
50S	50	1½"	63	2"	15.00	31.50	38.20	33.00	54.50	60.00
50	50	2"	63	2½"	15.00	35.80	44.00	37.00	60.00	65.00
63S	63	2"	75	2½"	15.00	41.70	50.00	34.25	67.50	72.00
63	63	2½"	75	3"	15.00	47.50	56.00	37.25	75.00	80.00
75S	75	2½"	90	3"	15.00	55.00	62.00	40.75	80.00	85.00
75	75	3"	90	3½"	15.00	62.00	68.00	44.00	84.00	90.00
90	90	3½"	100	4"	18.00	67.00	79.00	51.50	106.00	114.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	A1A2	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	
			Optional NPT-17		

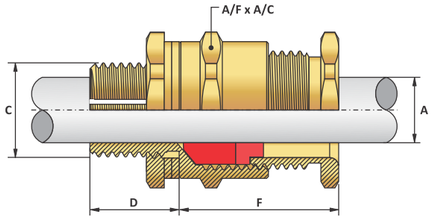
How to Order ?

Item Code: 20s16A1A2 1 11 PS 5
Code Meaning: Brass A1A2 20s16 Cable Gland.

20s16=Gland Size, A1A2=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

CXT Cable Gland

Size	: 16mm to 90mm	**Thread**	: Metric, NPT
Standard	: BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010	**Operating Temp.**	: -60°C to +125°C
Function	: Providing environmental seal on outer sheaths of all types of unarmoured cable in door and outdoor area.	**Features**	: Outer Displacement Seal
Ingress Protection	: IP66	**Seal Material**	: LSOH Silicone Seal & LSOH Nylon Washer
Material	: Brass CW614N, Stainless Steel 316L	**Accessories**	: PVC Shroud, Earth Tag, Galvanized Steel Lock Nut and Brass Washer
		Cable Type	: All types of screened flexible wire braid (e.g. CY/SY) or wire braid armoured cable.



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread		Thread Length "D"	Cable Dia. A		Protrusion Length "F"	A/F	A/C
	Metric	NPT	Metric	NPT		Min.	Max.			
20s16	20	½"	25	¾"	10.00	3.10	8.60	25.75	24.00	26.20
20S	20	½"	25	¾'	10.00	6.10	11.70	25.75	24.00	26.20
20	20	½"	25	¾"	10.00	6.50	13.90	26.25	27.00	29.50
25	25	¾"	32	1"	10.00	11.30	19.90	34.00	36.00	39.20
32	32	1"	40	1¼"	10.00	17.00	26.20	35.00	41.00	45.00
40	40	1¼"	50	1½"	15.00	23.60	32.10	35.00	49.00	53.00
50S	50	1½"	63	2"	15.00	31.50	38.20	33.00	54.50	60.00
50	50	2"	63	2½"	15.00	35.80	44.00	37.00	60.00	65.00
63S	63	2"	75	2½"	15.00	41.70	50.00	34.25	67.50	72.00
63	63	2½"	75	3"	15.00	47.50	56.00	37.25	75.00	80.00
75S	75	2½"	90	3"	15.00	55.00	62.00	40.75	80.00	85.00
75	75	3"	90	3½"	15.00	62.00	68.00	44.00	84.00	90.00
90	90	3½"	100	4"	18.00	67.00	79.00	51.50	106.00	114.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	A2CXT	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	
			Optional NPT-17		

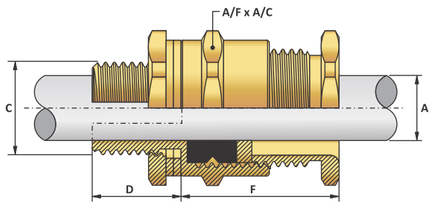
How to Order ?

Item Code: 20s16A2CXT 1 11 PS 5
Code Meaning: Brass A2CXT 20s16 Cable Gland.

20s16=Gland Size, A2CXT=Gland Code,
1= With Brass Material,11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

CXT Cable Gland

Size	: 16mm to 90mm	**Thread**	: Metric, NPT
Standard	: BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010	**Operating Temp.**	: -20°C to +80°C
Function	: Providing environmental seal on outer sheaths of all types of unarmoured cable in indoor and outdoor area.	**Features**	: Outer Compression Seal
Ingress Protection	: IP66	**Seal Material**	: Neoprene Washer
Material	: Brass CW614N, Stainless Steel 316L	**Accessories**	: PVC Shroud, Earth Tag, Galvanized Steel Lock Nut and Brass Washer
		Cable Type	: All types of screened flexible wire braid (e.g. CY/SY) or wire braid armoured cable



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread		Thread Length "D"	Cable Dia. A		Protrusion Length "F"	A/F	A/C
	Metric	NPT	Metric	NPT		Min.	Max.			
20s16	20	½"	25	¾'	10.00	3.10	8.60	25.75	24.00	26.20
20S	20	½"	25	¾"	10.00	6.10	11.70	25.75	24.00	26.20
20	20	½"	25	¾"	10.00	6.50	13.90	26.25	27.00	29.50
25	25	¾"	32	1"	10.00	11.30	19.90	34.00	36.00	39.20
32	32	1"	40	1¼"	10.00	17.00	26.20	35.00	41.00	45.00
40	40	1¼"	50	1½"	15.00	23.60	32.10	35.00	49.00	53.00
50S	50	1½"	63	2"	15.00	31.50	38.20	33.00	54.50	60.00
50	50	2"	63	2½"	15.00	35.80	44.00	37.00	60.00	65.00
63S	63	2"	75	2½"	15.00	41.70	50.00	34.25	67.50	72.00
63	63	2½"	75	3"	15.00	47.50	56.00	37.25	75.00	80.00
75S	75	2½"	90	3"	15.00	55.00	62.00	40.75	80.00	85.00
75	75	3"	90	3½"	15.00	62.00	68.00	44.00	84.00	90.00
90	90	3½"	100	4"	18.00	67.00	79.00	51.50	106.00	114.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	A1CXT	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	
			Optional NPT-17		

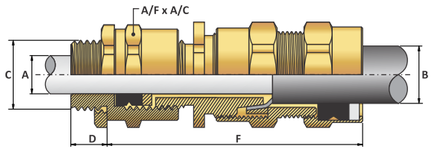
How to Order ?

Item Code: 20s16A1CXT 1 11 PS 5
Code Meaning: Brass A1CXT 20s16 Cable Gland.

20s16=Gland Size, A1CXT=Gland Code,
1= With Brass Material,11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

E1W Cable Gland

Size	: 16mm to 90mm & ½" to 3½"	**Material**	: Brass CW614N, Nickel Plated Brass, Stainless Steel 316L
Standard	: BS 6121: Part-1:2005, EN 50262:1999	**Thread**	: Metric, NPT
Application	: For indoor & outdoor use with all types of SWA cable providing environmental seal on both the cable inner & outer sheaths. Also provides mechanical retention & electrical continuity via armour wire termination.	**Operating Temp.**	: -20°C to +80°C
		Cable Type	: Single Wire Armour (SWA) Cable
		Features	: Compression Seal and Armored Ring
		Seal Material	: Neoprene Seal and Nylon Washer
Ingress Protection	: IP66	**Accessories**	: PVC Shroud, Earth Tag, Serrated Washer, Entry Thread Seal, Adaptor and Reducer



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread		Thread Length "D"	Cable Dia. "A"		Cable Dia. "B"		Armour Wire Dia.	Protrusion Length "F"	A/F	A/C
	Metric	NPT	Metric	NPT		Min.	Max.	Min.	Max.				
20s16	20	½"	25	¾"	10.00	3.10	8.60	6.60	13.50	0.90	50.00	22.00	24.25
20S	20	½"	25	¾"	10.00	6.10	11.70	10.20	16.00	0.9-1.25	50.00	22.00	24.25
20	20	½"	25	¾"	10.00	6.50	13.90	13.80	20.80	0.9-1.25	49.70	26.00	28.75
25S	25	¾"	32	1"	10.00	11.30	19.90	16.50	24.00	1.25-1.6	57.50	30.00	33.00
25	25	¾"	32	1"	10.00	11.30	19.90	21.90	27.00	1.25-1.6	58.50	34.00	38.00
32S	32	1"	40	1¼"	10.00	17.00	26.20	25.80	34.25	1.6-2.0	61.00	40.50	45.00
32	32	1"	40	1¼"	10.00	17.00	26.20	25.80	34.25	1.6-2.0	61.00	40.50	45.00
40S	40	1¼"	50	1½"	15.00	23.60	32.10	30.50	38.50	1.6-2.0	64.20	44.50	50.00
40	40	1¼"	50	2"	15.00	23.60	32.10	32.50	41.00	1.6-2.0	66.00	47.50	52.00
50S	50	1½"	63	2"	15.00	31.50	38.20	37.70	47.00	2.0-2.5	67.50	56.50	61.50
50	50	2"	63	2½"	15.00	35.80	44.00	43.00	53.50	2.0-2.5	70.00	61.00	65.00
63S	63	2"	75	2½"	15.00	41.70	50.00	48.50	59.00	2.0-2.5	73.20	68.00	73.00
63	63	2½"	75	3"	15.00	47.50	56.00	54.50	65.00	2.0-2.5	73.70	75.00	80.00
75S	75	2½"	90	3½"	15.00	55.00	62.00	62.75	72.00	2.0-2.5	77.70	83.50	89.00
75	75	3"	90	3½"	15.00	62.00	68.00	68.19	79.00	2.5-3.00	80.70	90.00	95.00
90	90	3½"	100	4"	18.00	67.00	79.00	75.00	86.00	3.0-3.50	100.50	100.00	110.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	E1WR	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	Serrated Washer-7
			Optional NPT-17		

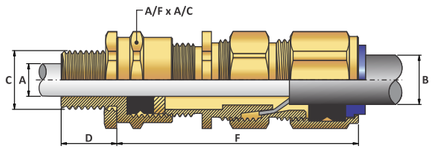
How to Order ?

Item Code: 20s16E1WR 1 11 PS 5
Code Meaning: Brass E1WR 20s16 Cable Gland.

20s16=Gland Size, E1WR=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

E1W Cable Gland

Size	: 16mm to 115mm & ½" to 4"	**Material**	: Brass CW614N, Nickel Plated Brass, Stainless Steel 316L
Standard	: BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010	**Thread**	: Metric, NPT
Application	: For indoor & outdoor use with all types of SWA cable providing environmental seal on both the cable inner & outer sheaths. Also provides mechanical retention & electrical continuity via armour wire termination.	**Operating Temp.**	: -60°C to +125°C
		Cable Type	: Single Wire Armour (SWA) Cable
		Features	: Displacement Seal and Two part Armour Lock
		Seal Material	: LSOH Silicone Seal & LSOH Nylon Washer
Ingress Protection	: IP66	**Accessories**	: PVC Shroud, Earth Tag, Serrated Washer, Entry Thread Seal, Adaptor and Reducer



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread		Thread Length "D"	Cable Dia. "A"		Cable Dia. "B"		Armour Wire Dia.	Protrusion Length "F"	A/F	A/C
	Metric	NPT	Metric	NPT		Min.	Max.	Min.	Max.				
20s16	20	½"	25	¾"	10.00	3.10	8.60	6.10	13.10	0.90	55.65	24.00	26.20
20S	20	½"	25	¾"	10.00	6.10	11.70	9.50	15.90	0.9-1.25	55.40	24.00	26.20
20	20	½"	25	¾"	10.00	6.50	13.90	12.50	20.90	0.9-1.25	58.90	30.00	33.00
25	25	¾"	32	1"	10.00	11.30	19.90	19.90	26.20	1.25-1.6	70.60	36.00	39.20
32	32	1"	40	1¼"	10.00	17.00	26.20	23.70	33.90	1.6-2.0	72.50	46.00	50.60
40	40	1¼"	50	1½"	15.00	23.60	32.10	27.90	40.40	1.6-2.0	74.10	55.00	60.00
50S	50	1½"	63	2"	15.00	31.50	38.20	35.20	46.70	2.0-2.5	71.00	60.00	65.00
50	50	2"	63	2½"	15.00	35.80	44.00	40.40	53.00	2.0-2.5	73.00	70.00	75.00
63S	63	2"	75	2½"	15.00	41.70	50.00	45.60	59.40	2.0-2.5	73.20	75.00	80.00
63	63	2½"	75	3"	15.00	47.50	56.00	54.60	65.80	2.0-2.5	77.25	80.00	85.00
75S	75	2½"	90	3"	15.00	55.00	62.00	59.00	72.00	2.0-2.5	83.00	90.00	95.00
75	75	3"	90	3½"	15.00	62.00	68.00	66.70	78.40	2.5-3.00	86.70	100.00	110.00
90	90	3½"	100	4"	18.00	67.00	79.00	76.20	90.30	3.0-3.50	114.50	112.00	121.50
100	100	4"	-	-	20.00	77.00	91.00	86.00	102.00	3.15-4.0	140.60	123.00	133.00
110	110	-	-	-	20.00	86.00	100.00	101.00	110.50	3.15-4.0	145.50	134.00	144.00
115	115	-	-	-	20.00	86.00	102.00	101.50	110.50	3.15-4.0	145.50	134.00	144.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	E1W	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	Serrated Washer-7
			Optional NPT-17		

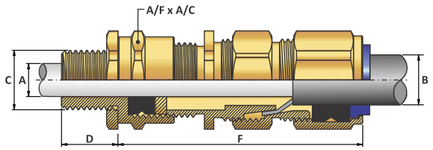
How to Order ?

Item Code: 20s16E1W 1 11 PS 5
Code Meaning: Brass E1W 20s16 Cable Gland.

20s16=Gland Size, E1W=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

E1X Cable Gland

Size : 16mm to 115mm & ½" to 4"
Standard : BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010
Application : For indoor & outdoor use with all types of SWA cable providing environmental seal on both the cable inner & outer sheaths. Also provides mechanical retention & electrical continuity via armour wire termination.
Ingress Protection : IP66
Material : Brass CW614N, Nickel Plated Brass, Stainless Steel 316L
Thread : Metric, NPT
Operating Temp. : -60°C to +125°C
Cable Type : Wire Braid Armour, Screened Flexible Wire Braid (CY/SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA)
Features : Displacement Seal and Two part Armour Lock
Seal Material : LSOH Silicone Seal & LSOH Nylon Washer
Accessories : PVC Shroud, Earth Tag, Serrated Washer, Entry Thread Seal



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread		Thread Length "D"	Cable Dia. "A"		Cable Dia. "B"		Armour Wire Dia.	Protrusion Length "F"	A/F	A/C
	Metric	NPT	Metric	NPT		Min.	Max.	Min.	Max.				
20s16	20	½"	25	¾"	10.00	3.10	8.60	6.10	13.10	0.3-1.0	55.65	24.00	26.20
20S	20	½"	25	¾"	10.00	6.10	11.70	9.50	15.90	0.3-1.0	55.40	24.00	26.20
20	20	½"	25	¾"	10.00	6.50	13.90	12.50	20.90	0.4-1.0	58.90	30.00	33.00
25	25	¾"	32	1"	10.00	11.30	19.90	19.90	26.20	0.4-1.2	70.60	36.00	39.20
32	32	1"	40	1¼"	10.00	17.00	26.20	23.70	33.90	0.4-1.2	72.50	46.00	50.60
40	40	1¼"	50	1½"	15.00	23.60	32.10	27.90	40.40	0.4-1.6	74.10	55.00	60.00
50S	50	1½"	63	2"	15.00	31.50	38.20	35.20	46.70	0.4-1.6	71.00	60.00	65.00
50	50	2"	63	2½"	15.00	35.80	44.00	40.40	53.00	0.6-1.6	73.00	70.00	75.00
63S	63	2"	75	2½"	15.00	41.70	50.00	45.60	59.40	0.6-1.6	73.20	75.00	80.00
63	63	2½"	75	3"	15.00	47.50	56.00	54.60	65.80	0.6-1.6	77.25	80.00	85.00
75S	75	2½"	90	3"	15.00	55.00	62.00	59.00	72.00	0.6-1.6	83.00	90.00	95.00
75	75	3"	90	3½"	15.00	62.00	68.00	66.70	78.40	0.6-1.6	86.70	100.00	110.00
90	90	3½"	100	4"	18.00	67.00	79.00	76.20	90.30	0.8-1.6	114.50	112.00	121.50
100	100	4"	-	-	20.00	77.00	91.00	86.00	102.00	3.15-4.0	140.60	123.00	133.00
110	110	-	-	-	20.00	86.00	100.00	101.00	110.50	3.15-4.0	145.50	134.00	144.00
115	115	-	-	-	20.00	86.00	102.00	101.50	110.50	3.15-4.0	145.50	134.00	144.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	E1X	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	Serrated Washer-7
			Optional NPT-17		

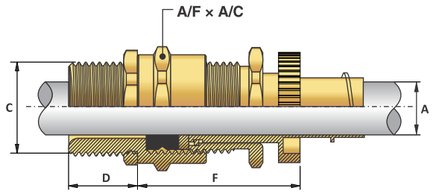
How to Order ?

Item Code: 220s16E1X 1 11 PS 5
Code Meaning: Brass E1X 20s16 Cable Gland.

20s16=Gland Size, E1X=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

A2FC - Conduit Cable Gland

Size : 16mm to 50mm & ½" to 2"
Standard : BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010
Function : Providing seal on outer sheaths of all types of unarmoured cable in indoor and outdoor area. With flexible conduit connection facility
Ingress Protection : IP66
Material : Brass CW614N, Stainless Steel 316L
Thread : Metric, NPT
Operating Temp. : -60°C to +125°C
Features : Outer Displacement Seal
Seal Material : LSOH Silicone Seal & LSOH Nylon Washer
Accessories : PVC Shroud, Earth Tag, Thread Seal



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread		Thread Length "D"	Flexible Conduit Diameter			Cable Dia. A		A/F	A/C	Protrusion Length "F"
	Metric	NPT	Metric	NPT		Size Code	Conduit Internal Diameter	Conduit External Diameter	Min.	Min.			
20s16	20	½"	25	¾"	10.00	AK010	9.5	11.5	3.10	8.60	24.00	26.20	35.75
20s16	20	½"	25	¾"	10.00	AK020	11.7	17.4	3.10	8.60	24.00	26.20	35.75
20S	20	½"	25	¾"	10.00	AK040	13	20	6.10	11.70	24.00	26.20	35.25
20S	20	½"	25	¾"	10.00	AK045	13.9	20	6.10	11.70	24.00	26.20	35.25
20S	20	½"	25	¾"	10.00	AK060	14.7	21.50	6.10	11.70	24.00	26.20	35.75
20	20	½"	25	¾"	10.00	AK050	15.6	21.6	6.50	13.90	27.00	29.50	36.40
20	20	½"	25	¾"	10.00	AK066	16.9	23.4	6.50	13.90	27.00	29.50	36.40
20	20	½"	25	¾"	10.00	AK070	18	24	6.50	13.90	27.00	29.50	36.15
20	20	½"	25	¾"	10.00	AK080	20	26.3	6.50	13.90	27.00	29.50	35.80
25	25	¾"	32	1"	10.00	AK110	22.3	28.5	11.30	19.90	36.00	39.20	45.50
25	25	¾"	32	1"	10.00	AK120	25.1	31.00	11.30	19.90	36.00	39.20	45.50
32	32	1"	40	1¼"	10.00	AK250	28.1	35.8	17.00	26.20	41.00	45.00	47.00
32	32	1"	40	1¼"	10.00	AK280	30.4	38.00	17.00	26.20	41.00	45.00	46.50
40	40	1¼"	50	1½"	15.00	AK300	36.4	45	23.60	32.10	50.00	55.00	46.90
50S	50	1½"	63	2"	15.00	AK450	46.5	58.7	31.50	38.20	55.00	60.00	49.50
50	50	2"	63	2"	15.00	Ak550	51.2	61	35.80	44.00	60.00	65.00	49.50

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	A2FC	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	
			Optional NPT-17		

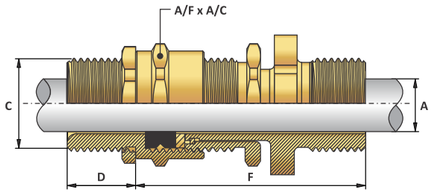
How to Order ?

Item Code: 20s16A2FC 1 11 PS 5
Code Meaning: Brass A2FC 20s16 Cable Gland.

20s16=Gland Size, A2FC=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

A2RM - Conduit Cable Gland

Size	: 16mm to 90mm & ½" to 3½"	**Material**	: Brass CW614N, Stainless Steel 316L
Standard	: BS 6121:Part-1:2005, EN 50262:1999, IEC62444:2010	**Thread**	: Metric, NPT
Function	: Providing seal on outer sheaths of all types of unarmoured cable in indoor and outdoor area. With male rigid conduit connection facility	**Operating Temp.**	: -60°C to +125°C
Ingress Protection	: IP66	**Features**	: Outer Displacement Seal
		Seal Material	: LSOH Silicone Seal & LSOH Nylon Washer
		Accessories	: PVC Shroud, Earth Tag, Thread Seal



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread		Thread Length "D"	Female Conduit Connection Thread			Cable Dia. A		A/F	A/C	Protrusion Length "F"
	Metric	NPT	Metric	NPT		Metric	NPT	BSP	Min.	Min.			
20s16	20	½"	25	¾"	10.00	20	½"	½"	3.10	8.60	24.00	26.25	47.05
20S	20	½"	25	¾"	10.00	20	½"	½"	6.10	11.70	24.00	26.25	46.80
20	20	½"	25	¾"	10.00	20	½"	½"	6.50	13.90	27.00	29.50	47.30
25	25	¾"	32	1"	10.00	25	¾"	¾"	11.30	19.90	36.00	39.20	55.30
32	32	1"	40	1¼"	10.00	32	1"	1"	17.00	26.20	41.00	45.00	60.40
40	40	1¼"	50	1½"	15.00	40	1¼"	1¼"	23.60	32.10	50.00	55.00	60.90
50S	50	1½"	63	2"	15.00	50	1½"	1½"	31.50	38.20	55.00	60.00	61.50
50	50	2"	63	2½"	15.00	50	2"	2"	35.80	44.00	60.00	65.00	64.00
63S	63	2"	75	2½"	15.00	63	2"	2"	41.70	50.00	68.00	72.00	62.25
63	63	2½"	75	3"	15.00	63	2½"	2½"	47.50	56.00	75.00	80.00	64.00
75S	75	2½"	90	3"	15.00	75	2½"	2½"	55.00	62.00	80.00	85.00	66.50
75	75	3"	90	3½"	15.00	75	3"	3"	62.00	68.00	85.00	90.00	68.00
90	90	3½"	100	4"	18.00	90	3½"	3½"	67.00	79.00	106.00	118.50	93.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	A2RM	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	
			Optional NPT-17		

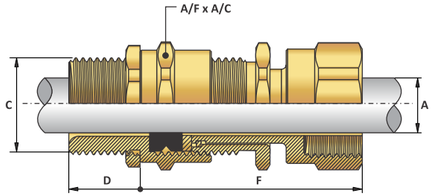
How to Order ?

Item Code: 20s16A2RM 1 11 PS 5
Code Meaning: Brass A2RM 20s16 Cable Gland.

20s16=Gland Size, A2RM=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

A2RF - Conduit Cable Gland

Size	: 16mm to 90mm & ½" to 3½"	**Material**	: Brass CW614N, Stainless Steel 316L
Standard	: BS 6121 : Part-1:2005, EN 50262:1999, IEC62444:2010	**Thread**	: Metric, NPT
Function	: Providing seal on outer sheaths of all types of unarmoured cable in indoor and outdoor area. With female rigid conduit connection facility	**Operating Temp.**	: -60°C to +125°C
Ingress Protection	: IP66	**Features**	: Outer Displacement Seal
		Seal Material	: LSOH Silicone Seal & LSOH Nylon Washer
		Accessories	: PVC Shroud, Earth Tag, Thread Seal



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread		Thread Length "D"	Male Conduit Connection Thread			Cable Dia. A		A/F	A/C	Protrusion Length "F"
	Metric	NPT	Metric	NPT		Metric	NPT	BSP	Min.	Min.			
20S16	20	½"	25	¾"	10.00	20	½"	½"	3.10	8.60	24.00	26.20	37.05
20S	20	½"	25	¾"	10.00	20	½"	½"	6.10	11.70	24.00	26.20	36.80
20	20	½"	25	¾"	10.00	20	½"	½"	6.50	13.90	27.00	29.50	37.30
25	25	¾"	32	1"	10.00	25	¾"	¾"	11.30	19.90	36.00	39.20	44.55
32	32	1"	40	1¼"	10.00	32	1"	1"	17.00	26.20	41.00	45.00	46.90
40	40	1¼"	50	1½"	15.00	40	1¼"	1¼"	23.60	32.10	50.00	55.00	47.40
50S	50	1½"	63	2"	15.00	50	1½"	1½"	31.50	38.20	55.00	60.00	47.00
50	50	2"	63	2"	15.00	50	2"	2"	35.80	44.00	60.00	65.00	49.25
63S	63	2"	75	2½"	15.00	63	2"	2"	41.70	50.00	68.00	72.00	48.00
63	63	2½"	75	2½"	15.00	63	2½"	2½"	47.50	56.00	75.00	80.00	49.25
75S	75	2½"	90	3"	15.00	75	2½"	2½"	55.00	62.00	80.00	85.00	51.50
75	75	3"	90	3½"	15.00	75	3"	3"	62.00	68.00	84.00	90.00	53.00
90	90	3½"	100	4"	18.00	90	3½"	3½"	67.00	79.00	106.00	118.50	73.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	A2RF	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	
			Optional NPT-17		

How to Order ?

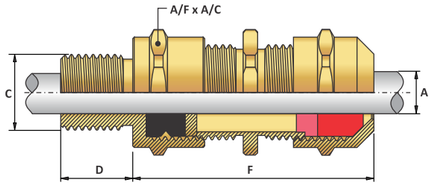
Item Code: 20s16A2RF 1 11 PS 5
Code Meaning: Brass A2RF 20s16 Cable Gland.

20s16=Gland Size, A2RF=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

SS2K Cable Gland

Size : 16mm to 90mm & ½" to 3½"
Standard : BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010
Function : Providing double seal on outer sheaths of all types of unarmored cable and inner bedding in indoor and outdoor area.
Ingress Protection : IP66

Material : Brass CW614N, Stainless Steel 316L
Thread : Metric, NPT
Operating Temp. : -60°C to 125°C
Features : Displacement Seal
Seal Material : LSOH Silicone Seal & LSOH Nylon Washer
Accessories : PVC Shroud, Earth Tag, Thread Seal, Adaptor & Reducer



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread		Thread Length "D"	Cable Dia. "A"		Protrusion Length "F"	A/F	A/C
	Metric	NPT	Metric	NPT		Min.	Max.			
20s16	20	½"	25	¾"	10.00	3.10	8.60	50.00	24.00	26.20
20S	20	½"	25	¾"	10.00	6.10	11.70	50.30	24.00	26.20
20	20	½"	25	¾"	10.00	6.50	13.90	50.80	27.00	29.50
25	25	¾"	32	1"	10.00	11.30	19.90	65.10	36.00	39.20
32	32	1"	40	1¼"	10.00	17.00	26.20	69.00	41.00	45.00
40	40	1¼"	50	1½"	15.00	23.60	32.10	63.20	49.00	53.00
50S	50	1½"	63	2"	15.00	31.50	38.20	64.70	54.50	60.00
50	50	2"	63	2½"	15.00	35.80	44.00	67.20	60.00	65.00
63S	63	2"	75	2½"	15.00	41.70	50.00	65.00	67.50	72.00
63	63	2½"	75	3"	15.00	47.50	56.00	65.70	75.00	80.00
75S	75	2½"	90	3"	15.00	55.00	62.00	66.20	80.00	85.00
75	75	3"	90	3½"	15.00	62.00	68.00	67.00	84.00	90.00
90	90	3½"	100	4"	18.00	67.00	79.00	93.20	106.00	114.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	SS2K	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	
			Optional NPT-17		

How to Order ?

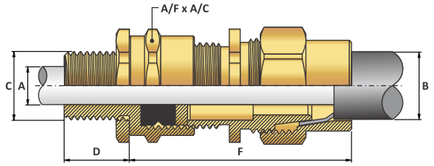
Item Code: 20s16SS2K 1 11 PS 5
Code Meaning: Brass SS2K 20s16 Cable Gland.

20s16=Gland Size, SS2K=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

D1W Cable Gland

Size : 16mm to 90mm & ½" to 3½"
Standard : BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010
Function : Providing environmental seal on the inner sheath of cable. Also provides mechanical cable retention & electrical continuity via armoured wire termination in indoor and outdoor area with all types of SWA cable.
Ingress Protection : IP66

Material : Brass CW614N, Stainless Steel 316L
Thread : Metric, NPT
Operating Temp. : -60°C to +125°C
Cable Type : Single Wire Armour (SWA) Cable
Features : Inner Displacement Seal and Armoured Ring Clamping
Seal Material : LSOH Silicone Seal & LSOH Nylon Washer
Accessories : PVC Shroud, Earth Tag, Serrated Washer and Entry Thread Seal.



Gland Selection Chart

Size	Standard Thread Size "C"		Optional Thread	Thread Length "D"	Cable Dia. "A"		Cable Dia. "B" Max.	Armour Wire Dia.	Protrusion Length "F"	A/F	A/C
	Metric	NPT	NPT		Min.	Max.					
20s16	20	½"	¾"	10.00	3.10	8.60	16.30	0.90	43.70	24.00	26.20
20S	20	½"	¾"	10.00	6.10	11.70	16.20	0.9-1.25	43.50	24.00	26.20
20	20	½"	¾"	10.00	6.50	13.90	21.00	0.9-1.25	44.20	30.00	33.00
25	25	¾"	1"	10.00	11.30	19.90	26.15	1.20-1.60	54.00	36.00	39.20
32	32	1"	1¼"	10.00	17.00	26.20	34.30	1.60-2.00	58.00	45.00	50.00
40	40	1¼"	1½"	15.00	23.60	32.10	39.55	1.60-2.00	55.00	55.00	60.00
50S	50	1½"	2"	15.00	31.50	38.20	46.90	2.00-2.50	58.20	60.00	65.00
50	50	2"	2"	15.00	35.80	44.00	55.10	2.00-2.50	59.00	70.00	75.00
63S	63	2"	2½"	15.00	41.70	50.00	60.60	2.50	60.70	75.00	80.00
63	63	2½"	3"	15.00	47.50	56.00	66.10	2.50	63.70	80.00	85.00
75S	75	2½"	3"	15.00	55.00	62.00	74.10	2.50	65.50	90.00	95.00
75	75	3"	3½"	15.00	62.00	68.00	79.00	2.50	66.70	95.00	100.00
90	90	3½"	4"	18.00	67.00	79.00	92.75	2.50-3.15	85.00	112.00	120.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
20s16	D1W	Brass-1	Standard Metric-11	PVC Shroud-PS	Steel Lock Nut-5
		Stainless Steel-2	Standard NPT-12	Dip Moulding Shroud-DS	IP Washer-6
		Nickel Plated-3	Optional Metric-16	LSF Shroud-LS	
			Optional NPT-17		

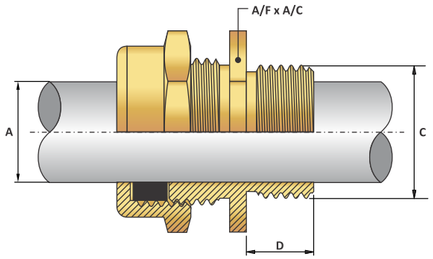
How to Order ?

Item Code: 20s16D1W 1 11 PS 5
Code Meaning: Brass D1W 20s16 Cable Gland.

20s16=Gland Size, D1W=Gland Code,
1= With Brass Material,11=With Standard Metric Thread,
PS= With PVC Shroud, 5=With Steel Lock Nut.

TRS Cable Gland

Size : 16mm to 50mm
Standard : BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010
Function : Recommended for use with braided, co-axial or SWA cables. A rubber seal compresses on cable to provide a tight fit against cable.
Ingress Protection : IP66
Material : Brass CW614N
Thread : Metric
Features : Outer Compression Seal
Accessories : PVC Shroud, Earth Tag and Serrated Washer



Gland Selection Chart

Gland Size	Entry Thread "C" Metric	Thread Length "D"	Cable Dia. "A"		A/F	A/C
			Max.	Max.		
16	M16	8.00	3.00	7.00	20.00	23.00
20S	M20	10.00	7.00	10.00	24.00	26.20
20	M20	10.00	10.00	14.50	27.00	29.50
25	M25	10.00	14.50	20.50	35.00	39.00
32	M32	10.00	20.50	26.50	43.00	47.50
40	M40	15.00	26.50	34.50	51.50	57.00
50	M50	15.00	34.50	43.50	58.50	65.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
16	TRS	Brass-1	Standard Metric-11	PVC Shroud-PS	IP Washer-6

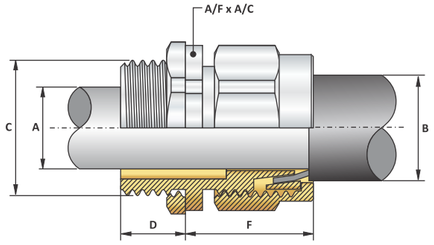
How to Order ?

Item Code: 16TRS 1 11 PS 6
Code Meaning: Nickel Plated M16 TRS Cable Gland.

16=Gland Size, TRS=Gland Code,
1= With Brass Material, 11=With Standard Metric Thread,
PS= With PVC Shroud, 6=With IP washer.

ALCO Cable Gland

Size : G204 to G755
Standard : BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010
Function : Provides mechanical cable retention & electrical continuity via armoured wire termination in dry indoor area for all types of SWA cables.
Ingress Protection : IP2X
Material : Brass CW614N, Stainless Steel 316L
Thread : Metric
Operating Temp. : -60°C to +200°C
Cable Type : Single Wire Armour (SWA) Cable
Features : Armoured Ring
Accessories : PVC Shroud and Earth Tag



Gland Selection Chart

Size	Thread Size "C"	Thread Length "D"	Cable Dia.		Armour Wire Dia.	Protrusion Length "F"	A/F	A/C
	Metric		"A" Max.	"B" Max.				
G-204	20	10.00	12.50	16.00	0.90-1.25	17.00	22.00	24.25
G-206	20	10.00	15.00	20.00	0.90-1.25	17.50	24.00	26.20
G-254	25	10.00	18.50	24.00	1.25-1.60	19.00	30.00	33.00
G-256	25	10.00	20.50	27.00	1.25-1.60	20.25	32.00	35.00
G-324	32	10.00	27.25	34.00	1.60-2.00	20.50	40.50	45.00
G-326	32	10.00	27.25	34.00	1.60-2.00	20.50	40.50	45.00
G-405	40	15.00	31.00	37.50	1.60-2.00	21.00	44.50	50.00
G-503	50	15.00	34.50	41.00	2.00-2.50	22.00	47.50	52.00
G-505	50	15.00	41.00	48.00	2.00-2.50	21.50	56.50	61.50
G-636	63	15.00	44.50	54.00	2.50	24.25	61.00	65.00
G-753	75	15.00	51.50	59.00	2.50	26.00	67.50	72.00
G-755	75	15.00	56.75	65.00	2.50-3.15	26.00	75.00	80.00

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type	Accessories
G-204	ALCO	Nickel Plated-3	Standard Metric-11	PVC Shroud-PS	IP Washer-6
				Dip Moulding Shroud-DS	
				LSF Shroud-LS	

How to Order ?

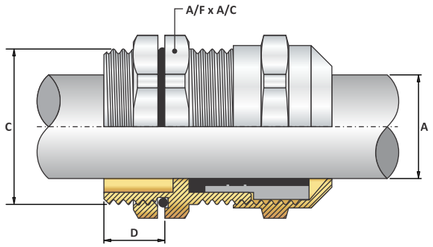
Item Code: G-204ALCO 3 11 PS 6
Code Meaning: Nickel Plated ALCO G-204 Cable Gland.

G-204=Gland Size, ALCO=Gland Code,
3=With Nickel Plated Brass Material, 11=With Standard Metric Thread, PS=With PVC Shroud, 6=With IP Washer.

IP68 Cable Gland

Size : PG 7 to PG 48 & M12 to M63
Standard : BS 6121: Part-1:2005, EN 50262:1999, IEC62444:2010
Application : Suitable for everyplace where IP68 protection is required against dust, liquid, water, strain, twist and vibration. IP68 cable glands are mostly used in measuring and controlling instruments, machineries and equipment. Provide shake and twist proof protection.

Function : Maximum strain relief through clamping range. Trapezoidal thread with high torque guarantee.
Ingress Protection : IP68- 15 bar
Thread : PG and Metric
Operating Temp. : -25°C to +80°C
Material : Nickel Plated Brass
Accessories : Neoprene Washer, Polyamide Insert and Perbuman O Ring



Gland Selection Chart

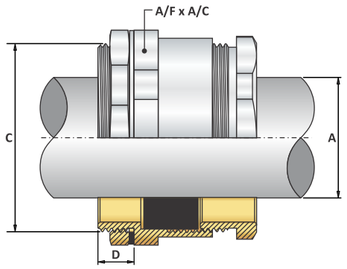
Gland Size	Thread "C"	Thread Length "D"	Cable Dia."A"		A/F	A/C	CAT NO
			Min.	Max.			
PG-7	PG-7	5.00	3.00	6.00	14.00	15.55	CIPG-07
PG-9	PG-9	6.00	4.00	8.00	17.00	19.00	CIPG-09
PG-11	PG-11	6.00	5.00	10.00	20.00	22.00	CIPG-11
PG-13.5	PG-13.5	6.00	6.00	12.00	22.00	24.00	CIPG-13
PG-16	PG-16	6.50	10.00	14.00	24.00	26.60	CIPG-16
PG-19	PG-19	7.00	12.00	18.00	27.00	29.20	CIPG-19
PG-25	PG-25	8.50	13.00	22.00	30.00	33.00	CIPG-25
PG-29	PG-29	8.00	18.00	25.00	40.00	44.00	CIPG-29
PG-36	PG-36	9.00	22.00	32.00	50.00	55.50	CIPG-36
PG-42	PG-42	10.00	30.00	38.00	55.00	60.00	CIPG-42
PG-48	PG-48	10.00	34.00	44.00	65.00	70.00	CIPG-48
PG-63	PG-63	14.00	42.00	54.00	72.00	77.00	CIPG-63

Gland Size	Thread "C"	Thread Length "D"	Cable Dia. "A"		A/F	A/C	CAT NO
			Min.	Max.			
12	M 12	5.00	3.00	6.00	14.00	15.55	CIPM-12
16	M 16	5.00	4.00	8.00	17.00	19.00	CIPM-16
20	M 20	6.00	8.00	13.00	22.00	24.00	CIPM-20
25	M 25	7.00	11.00	17.00	27.00	29.00	CIPM-25
32	M 32	8.00	15.00	21.00	34.00	38.00	CIPM-32
40	M 40	8.00	19.00	28.00	45.00	47.00	CIPM-40
50	M 50	9.00	26.00	35.00	55.00	60.00	CIPM-50
63	M 63	10.00	35.00	42.00	65.00	70.00	CIPM-63
75	M 75	14.00	42.00	52.00	75.00	80.00	CIPM-75
80	M 80	14.00	55.00	62.00	45.00	47.00	CIPM-80
88	M 88	14.00	55.00	70.00	55.00	60.00	CIPM-88
100	M 100	14.00	78.00	84.00	65.00	70.00	CIPM-100

PG Cable Gland

Size : PG 7 to PG 48 & M12 to M63
Standard : EN 60259
Application : Suitable for indoor and outdoor conditions for unarmoured cable.
Ingress Protection : IP54
Material : Nickel Plated Brass CW614N

Cable Type : Unarmoured Cable
Thread : PG and Metric
Operating Temp. : -25°C to +80°C
Features : Inner Compression Seal
Accessories : Reducer and Adaptor



Gland Selection Chart

Gland Size	Thread "C"	Thread Length "D"	Cable Dia. "A"		A/F	A/C	CAT NO.
			Min.	Max.			
PG-7	PG-7	5.00	6.00	8.00	14.00	15.50	CPG-7
PG-9	PG-9	6.00	8.00	10.00	17.00	19.50	CPG-9
PG-11	PG-11	6.00	10.00	12.00	20.00	22.25	CPG-11
PG-13.5	PG-13.5	6.50	12.00	14.00	22.00	24.25	CPG-13
PG-16	PG-16	6.50	14.00	16.00	24.00	26.50	CPG-16
PG-21	PG-21	7.00	17.00	19.00	30.00	33.00	CPG-21
PG-29	PG-29	8.00	18.00	25.00	40.00	44.00	CPG-29
PG-36	PG-36	9.00	33.00	35.00	50.00	54.25	CPG-36
PG-42	PG-42	10.00	39.00	41.00	57.00	64.00	CPG-42
PG-48	PG-48	10.00	45.00	47.00	64.00	72.00	CPG-48

Gland Size	Thread "C"	Thread Length "D"	Cable Dia. "A"		A/F	A/C	CAT NO.
			Min.	Max.			
12	M 12	5.00	4.20	6.00	14.00	15.50	CPGM-12
16	M 16	5.00	2.10	9.80	18.00	20.00	CPGM-16
20	M 20	6.00	3.00	14.10	22.00	24.25	CPGM-20
25	M 25	7.00	7.75	18.00	27.00	29.35	CPGM-25
32	M 32	8.00	15.50	25.20	34.00	37.00	CPGM-32
40	M 40	8.00	22.40	32.90	42.00	45.00	CPGM-40
50	M 50	9.00	31.00	42.10	52.00	56.00	CPGM-50
63	M 63	10.00	41.00	51.20	66.00	72.00	CPGM-63

Product Code for Ordering Purpose

Size	Type	Material	Thread Type	Shroud Type
PG-7	PG	Nickel Plated-3	Standard Metric-11	PVC Shroud-PS
			Standard PG-14	

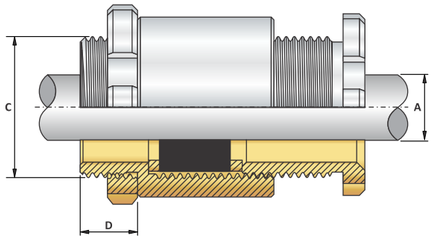
How to Order ?

Item Code: PG7PG 3 14 PS, 12PG 3 11 PS
Code Meaning: Nickel Plated PG7 PG Cable Gland.
Nickel Plated M12 PG Cable Gland.

PG7 & 12=Gland Size, PG=Gland Code,
3= With Nickel Plated Brass Material, PS= With PVC Shroud,
14=With Standard PG Thread, 11=With Standard Metric Thread.

Marine Cable Gland

Size : M10 to M75
Material : Brass, Chromium Plated
Gland Type : JIS Standard-8802/8803/F8801
Entry Thread : BSP
Ingress Protection : IP66
Application : For use all types of unarmoured cable



Gland Selection Chart

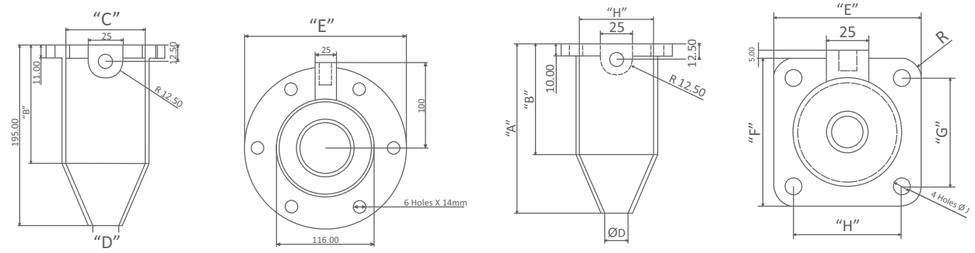
Gland Size	Thread BSP	Cable Dia. "A"	Thread Length "D"	Entry Hole Size mm	CAT NO.
M-10	⅜"	6-7	11.00	18.00	CBIMG-10
M-15	½"	8-11	11.00	22.00	CBIMG-15
M-20	¾"	11-15	11.00	27.00	CBIMG-20
M-25	1"	15-20	11.00	34.00	CBIMG-25
M-30	1¼"	20-26	12.00	43.00	CBIMG-30
M-35	1½"	26-30	12.00	49.00	CBIMG-35
M-40	1½"	30-34	12.00	49.00	CBIMG-40
M-45	2"	34-40	12.00	61.00	CBIMG-45
M-50	2"	40-44	12.00	61.00	CBIMG-50
M-55	2½"	44-50	12.00	75.00	CBIMG-55
M-60	2½"	50-56	12.00	75.00	CBIMG-60
M-65	3"	56-60	12.00	89.00	CBIMG-65
M-70	3"	60-64	12.00	89.00	CBIMG-70
M-75	3"	64-70	14.00	89.00	CBIMG-75

How to Order ?

Item Code: CBIMG - 10
Code Meaning: M10 Marine Cable Gland.

Wiping Cable Gland

Size : X, Y and Z
Material : Brass BS 2874
Application : For use with SWA plastic and rubber (Elastomer) sheathed cables. Used in dry indoor conditions.
Accessories : Hot Dip Galvanized Mild Steel Clamp, Neoprene Gasket.



Gland Selection Chart

Gland Size	Dia. Over Metal Sheath of Cable	Dimension in mm									
		A	B	ØC	ØD	E	F	G	H	ØJ	R
X	12 to 51	137	90	60	19	90	90	66	66	12	12
Y	25 to 78	155	95	108	32	114	123	95	86	14	14
Y	25 to 78	150	95	106	28	137	137	104	104	14	14
Z	25 to 94	125	140	108	32	190	100	-	-	44	-

Wiping Cable Gland Gasket and Clamp

Gasket Material : Neoprene
Clamp Material : Hot Dip Galvanized Mild Steel
Application : For use with Wiping Gland X, Y and Z

Product Code for Ordering Purpose

Size	Type	Material	Clamp	Gasket
X	Wiping	Brass-1	Hot Dip Galvanized-A	Neoprene Gasket-B

How to Order ?

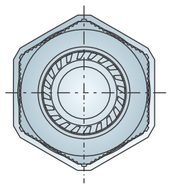
Item Code: XWIPING 1 A B
Code Meaning: Brass X type Wiping Cable Gland.

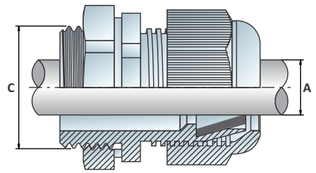
X=Gland Size, WIPING=Gland Code,
1= With Brass Material, A= With Hot Dip Galvanized Clamp,
B= With Neoprene Gasket.

Nylon Cable Gland

Size : PG 7 to PG 48 and M12 to M63
Application : Suitable for indoor and outdoor conditions for unarmoured cable. Mostly used in motors, junction boxes, machinery, equipment, etc

Ingress Protection : IP66
Thread : Metric, PG
Material : Nylon Polyamide
Accessories : Lock Nut





PG Thread Cable Gland Selection Chart

Gland Size	Thread "C"	Cable Range Dia. "A"		CAT NO.
		Min.	Max.	
7	PG-7	3.00	6.50	CNCG-07
9	PG-9	4.00	8.00	CNCG-09
11	PG-11	5.00	10.00	CNCG-11
13.5	PG-13.5	6.00	12.00	CNCG-13
16	PG-16	10.00	14.00	CNCG-16
21	PG-21	13.00	18.00	CNCG-21
25	PG-25	16.00	21.00	CNCG-25
26	PG-26	18.00	25.00	CNCG-26
36	PG-36	22.00	32.00	CNCG-36
42	PG-42	28.00	38.00	CNCG-42
48	PG-48	35.00	45.00	CNCG-48

Metric Thread Cable Gland Selection Chart

Gland Size	Thread "C"	Cable Range Dia. "A"		CAT NO.
		Min.	Max.	
12	M12	3.00	6.00	CMCG-12
16	M16	5.00	10.00	CMCG-16
20	M20	8.00	13.00	CMCG-20
25	M25	10.00	17.00	CMCG-25
32	M32	15.00	21.00	CMCG-32
40	M40	19.00	28.00	CMCG-40
50	M50	25.00	35.00	CMCG-50
63	M63	35.00	45.00	CMCG-63

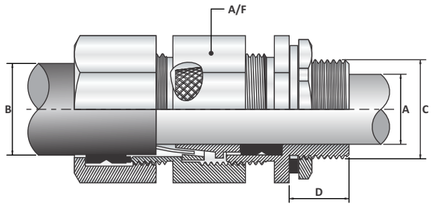
Dimensions are in mm

CABTEK electrical accessories

Double Compression Cable Gland

Size : 16mm to 115mm & ½" to 3 ½"
Standard : BS 6121:Part-1:2005, EN 50262: 1999
Function : For indoor & outdoor use with all types of SWA cable providing environmental seal on both the cable inner & outer sheaths. Also provides mechanical retention & electrical continuity via armour wire termination.

Ingress Protection : IP66
Material : Brass BS 2874
Thread : Metric, BSC (ET)
Operating Temp. : -20°C to +80°C
Cable Type : Steel Wire (SWA) Cable
Features : Displacement seal and Universal anyway clamping ring
Accessories : Shroud, Earth Tag, Serrated washer, Lock nut and Entry Thread Seal.



Gland Selection Chart

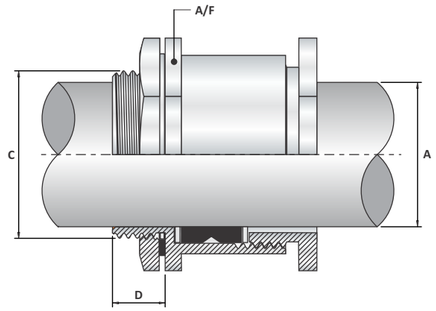
Entry Thread		Thread Length"D"	Cable Dia. "A"		Cable Dia. "B"		Armour Wire Dia.	A/F	A/C	CAT NO.
Metric	ET		Min.	Max.	Min.	Max.				
M20	¾"	15	5.00	12.00	6.00	12.00	0.80-1.40	21.00	23.50	CDCG-1
M20	¾"	15	11.00	15.00	12.00	16.00	0.80-1.40	25.00	29.00	CDCG-2
M25	1"	15	14.00	16.00	16.00	18.00	0.80-1.40	28.00	32.00	CDCG-3
M25	1"	15	14.00	16.00	18.00	20.00	0.80-1.40	31.50	36.50	CDCG-4
M28	1⅛"	15	16.50	17.50	20.00	23.00	0.80-1.40	38.00	37.00	CDCG-5
M32	1¼"	15	18.50	20.50	23.00	26.00	0.80-1.40	41.00	44.00	CDCG-6
M35	1⅜"	15	22.50	27.50	26.00	30.00	0.80-1.40	47.00	47.00	CDCG-7
M38	1½"	15	26.50	27.50	30.00	33.00	0.80-1.40	52.00	54.00	CDCG-8
M45	1¾"	15	29.60	33.00	33.00	37.00	0.80-1.40	56.00	58.00	CDCG-9
M50	2"	15	33.50	37.00	37.00	41.00	0.80-1.40	59.00	64.00	CDCG-10
M57	2¼"	15	37.50	40.00	41.00	46.00	0.80-1.40	67.50	67.00	CDCG-11
M63	2½"	20	43.50	43.00	46.50	52.00	0.80-1.40	80.00	77.00	CDCG-12
M63	2½"	20	49.00	52.00	52.00	61.00	0.80-1.40	85.00	92.00	CDCG-13
M70	2¾"	20	56.00	64.50	61.00	66.00	0.80-1.40	90.00	98.00	CDCG-14
M75	3"	20	61.50	67.50	66.00	72.00	0.80-1.40	99.00	113.00	CDCG-15
M82	3¼"	20	66.50	73.00	72.00	78.00	0.80-1.40	108.00	122.00	CDCG-16
M88	3½"	20	72.50	74.00	78.00	84.00	0.80-1.40	117.00	131.00	CDCG-17

Dimensions are in mm

CABTEK
electrical accessories

Single Compression Cable Gland

Size	:	16mm to 115mm and ¾" to 4"	**Material**	:	Brass BS 2874
Standard	:	BS 6121:Part-1:2005, EN 50262: 1999	**Thread**	:	Metric and BSC (ET)
Function	:	Providing seal on outer sheaths of unarmored cable in indoor and outdoor area.	**Operating Temp.**	:	-20°C to +80°C
			Features	:	Outer Compression seal
			Accessories	:	Shroud, Earth Tag, Lock Nut and Serrated Washer.
Ingress Protection	:	IP65			



Gland Selection Chart

Size	Thread Size "C"		ThreadLength "D"	Cable Range Dia. "A"		Across Flat	CAT NO.
	Metric	ET		Min.	Max.		
⅜"	10	⅜"	7.50	10.00	12.00	18.00	CSCG-10
½"	12	½"	8.50	10.00	15.00	22.00	CSCG-12
⅝"	16	⅝"	8.00	10.00	16.00	21.00	CSCG-16
¾"	19	¾"	8.50	14.00	16.00	23.00	CSCG-19
⅞"	22	⅞"	8.50	16.50	17.50	25.00	CSCG-22
1"	25	1"	9.00	18.50	20.50	29.00	CSCG-25
1⅛"	28	1⅛"	10.00	22.50	27.50	35.00	CSCG-28
1¼"	32	1¼"	10.50	26.50	27.50	40.00	CSCG-32
1⅜"	35	1⅜"	10.50	29.50	33.00	44.00	CSCG-35
1½"	38	1½"	11.00	33.50	37.00	47.00	CSCG-38
1¾"	45	1¾"	11.00	37.50	40.00	54.00	CSCG-45
2"	50	2"	12.00	43.50	43.00	60.00	CSCG-50
2¼"	57	2¼"	13.00	49.00	52.00	68.00	CSCG-57
2½"	63	2½"	13.00	56.00	64.50	72.00	CSCG-63
2¾"	70	2¾"	14.00	61.50	67.50	80.00	CSCG-70
3"	75	3"	15.00	66.50	73.00	87.00	CSCG-75
3¼"	82	3¼"	16.00	72.50	74.00	92.00	CSCG-82
3½"	88	3½"	17.00	80.50	83.00	102.00	CSCG-88
4"	100	4"	18.00	84.00	95.00	110.00	CSCG-100

Dimensions are in mm

CABTEK
electrical accessories

Industrial

CABLE GLAND ACCESSORIES

Cabtek Cable Gland Kit

Cable Gland Shroud

The Shrouds are made from high grade polyvinayl chloride. Shroud manufacturing from two different process, one is Dip moulding and another one is Injection moulding. The Shrouds are required to use with all cables glands to provide additional ingress protection and to minimize the risk of dust or any other foreign substance to accumulate around cable gland body. The arrow end of the sleeves is readily cut with a knife, enabling it to be slipped over a wide range of cable diameters and assists ease of installations. Standard Shrouds are produced from black PVC. But we also manufacture LSF and LSOH silicone shroud as per customer's requirement. LSF shroud mostly used in grey colour but we also supply in white, red, blue colour.

Product code for Ordering Cable Gland Shroud

- CPSB20S : BW20S Cable Gland PVC Shroud
- CDSB20S : BW20S Cable Gland Dip Moulding Shroud
- CLSB20S : BW20S Cable Gland LSF Shroud
- CSLB20S : BW20S Cable Gland LSOH Silicone Shroud

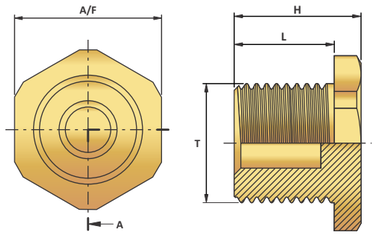
Cable Gland Shroud

Gland Size	CAT NO. BW	CAT NO. CW	CAT NO. A2	CAT NO. E1W	CAT NO. A2F	CAT NO. E1FW
20S	CPSB20S	CPSC20S	CPSA220S	CPSE1W20S	CPSA2F20S	CPSE1FW20S
20L	CPSB20L	CPSC20L	CPSA220L	CPSE1W20L	CPSA2F20L	CPSE1FW20L
25S	CPSB25S	CPSC25S	CPSA225S	CPSE1W25S	CPSA2F25S	CPSE1FW25S
25L	CPSB25L	CPSC25L	CPSA225L	CPSE1W25L	CPSA2F25L	CPSE1FW25L
32S	CPSB32S	CPSC32S	CPSA232S	CPSE1W32S	CPSA2F32S	CPSE1FW32S
32L	CPSB32L	CPSC32L	CPSA232L	CPSA2E1WL	CPSA2F32L	CPSE1FW32L
40S	CPSB40S	CPSC40S	CPSA240S	CPSE1W40S	CPSA2F40S	CPSE1FW40S
40L	CPSB40L	CPSC40L	CPSA240L	CPSE1W40L	CPSA2F40L	CPSE1FW40L
50S	CPSB50S	CPSC50S	CPSA250S	CPSE1W50S	CPSA2F50S	CPSE1FW50S
50L	CPSB50L	CPSC50L	CPSA250L	CPSE1W50L	CPSA2F50L	CPSE1FW50L
63S	CPSB63S	CPSC63S	CPSA263S	CPSE1W63S	CPSA2F63S	CPSE1FW63S
63L	CPSB63L	CPSC63L	CPSA263L	CPSE1W63L	CPSA2F63L	CPSE1FW63L
75S	CPSB75S	CPSC75S	CPSA275S	CPSE1W75S	CPSA2F75S	CPSE1FW75S
75L	CPSB75L	CPSC75L	CPSA275L	CPSE1W75L	CPSA2F75L	CPSE1FW75L
90S	CPSB90S	CPSC90S	CPSA290S	CPSE1W90S	CPSA2F90S	CPSE1FW90S
90L	CPSB90L	CPSC90L	CPSA290L	CPSE1W90L	CPSA2F90L	CPSE1FW90L

Hex Stop Plug

Stop Plug are designed to sealing or close any unused entries in electrical enclosures, equipment and junction boxes, etc. Stop Plug are always used to with ring to seal properly. Stop plug are also used for maintain integrity of enclosure and IP rating of equipment.

Stop Plug are generally available in Brass, Nickel Plated Brass, Mild Steel and Nylon.



Metric Thread Hex Stop Plug

Size	T	L	H	A/F	CAT NO.
M 12	M 12X1.5	12.00	15.00	14.00	CHSP-M12
M 16	M 16X1.5	12.00	15.00	18.00	CHSP-M16
M 20	M 20X1.5	12.00	15.00	23.00	CHSP-M20
M 25	M 25X1.5	15.00	18.50	28.00	CHSP-M25
M 32	M 32X1.5	15.00	19.00	36.00	CHSP-M32
M 40	M 40X1.5	15.00	19.00	44.00	CHSP-M40
M 50	M 50X1.5	15.00	20.00	54.00	CHSP-M50
M 63	M 63X1.5	15.00	20.00	67.00	CHSP-M63
M75	M75X1.5	15.00	20.00	80.00	CHSP-M75
M90	M90X1.5	15.00	21.00	95.00	CHSP-M90
M100	M100X1.5	20.00	27.00	105.00	CHSP-M100

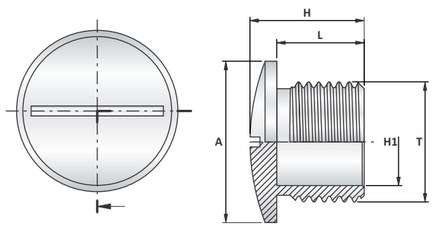
PG Thread Hex Stop Plug

Size	T	L	H	A/F	CAT NO.
PG7	PG7	12.00	15.00	16.00	CHSP-PG7
PG9	PG9	12.00	15.00	18.00	CHSP-PG9
PG11	PG11	12.00	15.00	21.00	CHSP-PG11
PG13.5	PG13.5	15.00	18.50	23.00	CHSP-PG13
PG16	PG16	15.00	19.00	26.00	CHSP-PG16
PG21	PG21	15.00	19.00	32.00	CHSP-PG21
PG29	PG29	15.00	20.00	41.00	CHSP-PG29
PG36	PG36	15.00	20.00	46.00	CHSP-PG36
PG42	PG42	15.00	20.00	55.00	CHSP-PG42
PG48	PG48	15.00	20.00	65.00	CHSP-PG48

Round Head Stop Plug

Stop Plug are designed to sealing or close any unused entries in electrical enclosures, equipment and junction boxes, etc. Stop Plug are always used with ring to seal properly. Stop plug are also used for maintain integrity of enclosure and IP rating of equipment.

Stop Plug are generally available in Brass, Nickel Plated Brass, Mild Steel and Nylon.



PG Thread Round Head Stop Plug

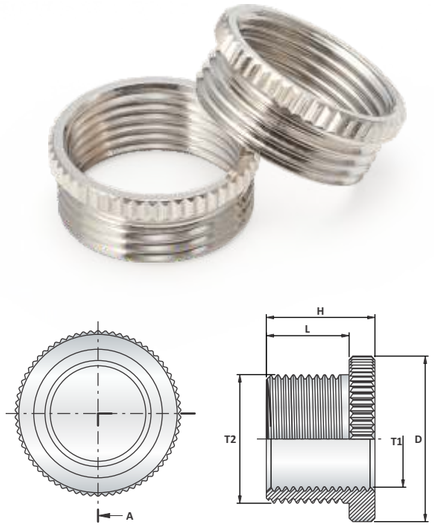
T	H	L		H1	A	CAT NO.
		Short	Long			
PG 7	8.00	5.00	12.00	10.00	14.00	CRHSP-PG7
PG 9	9.00	6.00	12.00	12.50	17.00	CRHSP-PG9
PG 11	9.00	6.00	12.00	15.25	20.00	CRHSP-PG11
PG 13	9.50	6.50	12.00	17.00	22.00	CRHSP-PG13
PG 16	9.50	6.50	12.00	18.75	24.00	CRHSP-PG16
PG 21	11.00	7.00	12.00	24.00	30.00	CRHSP-PG21
PG 29	12.00	8.00	12.00	32.00	39.00	CRHSP-PG29
PG 36	15.00	9.00	15.00	42.00	50.00	CRHSP-PG36
PG 42	16.00	10.00	15.00	48.00	57.00	CRHSP-PG42
PG 48	16.00	10.00	15.00	52.50	54.00	CRHSP-PG48

Metric Thread Round Head Stop Plug

T	H	L		H1	A	CAT NO.
		Short	Long			
M 12	7.50	5.00	12.00	8.00	14.00	CRHSP-M12
M 16	8.00	5.00	12.00	12.25	18.00	CRHSP-M16
M 20	9.50	6.50	12.00	16.25	22.00	CRHSP-M20
M 25	11.00	7.00	15.00	21.00	28.00	CRHSP-M25
M 32	12.00	8.00	15.00	28.00	35.00	CRHSP-M32
M 40	13.00	8.00	15.00	35.00	45.00	CRHSP-M40
M 50	15.00	10.00	15.00	45.00	55.00	CRHSP-M50
M 63	15.00	10.00	15.00	57.50	67.00	CRHSP-M63

Round Reducer

Cabtek offer a range of reducer and adaptor for industrial and hazardous area application which provide effectiveness connection between cable entry devices and equipment having dis-similar thread. Reducer are designed to reduce dissimilar thread.

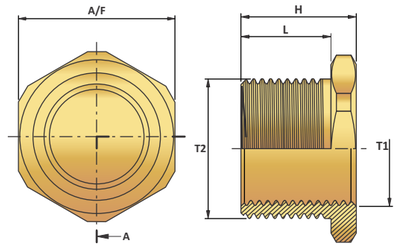


Metric Reducer					
T2	T1	D	L	H	CAT NO.
M16	M12	17.00	6.00	8.50	CRRM-1612
M20	M12	22.00	6.50	9.50	CRRM-2012
M20	M16	22.00	6.50	9.50	CRRM-2016
M25	M16	30.00	7.00	10.00	CRRM-2516
M25	M20	30.00	7.00	10.00	CRRM-2520
M32	M20	39.00	8.00	11.50	CRRM-3220
M32	M25	39.00	8.00	11.50	CRRM-3225
M40	M20	48.00	9.00	12.50	CRRM-4020
M40	M25	48.00	9.00	12.50	CRRM-4025
M40	M32	48.00	9.00	12.50	CRRM-4032
M50	M25	60.00	10.00	14.00	CRRM-5025
M50	M32	60.00	10.00	14.00	CRRM-5032
M50	M40	60.00	10.00	14.00	CRRM-5040
M63	M40	68.00	10.00	14.00	CRRM-6340
M63	M50	68.00	10.00	14.00	CRRM-6350

PG Thread Reducer					
T2	T1	D	L	H	CAT NO.
PG9	PG7	17.00	6.00	8.50	CRRPG-97
PG11	PH7	20.00	6.00	8.50	CRRPG-117
PG11	PG9	20.00	6.00	8.50	CRRPG-119
PG13.5	PG7	22.00	6.50	9.00	CRRPG-137
PG13.5	PG9	22.00	6.50	9.00	CRRPG-139
PG13.5	PG11	22.00	6.50	9.00	CRRPG-1311
PG16	PG7	24.00	6.50	9.00	CRRPG-167
PG16	PG9	24.00	6.50	9.00	CRRPG-169
PG16	PG11	24.00	6.50	9.00	CRRPG-1611
PG16	PG13.5	24.00	6.50	9.00	CRRPG-1613
PG21	PG11	30.00	7.00	10.00	CRRPG-2111
PG21	PG13.5	30.00	7.00	10.00	CRRPG-2113
PG21	PG16	30.00	7.00	10.00	CRRPG-2116
PG29	PG13.5	39.00	8.00	11.50	CRRPG-2913
PG29	PG16	39.00	8.00	11.50	CRRPG-2916
PG29	PG21	39.00	8.00	11.50	CRRPG-2921
PG36	PG21	50.00	9.00	12.50	CRRPG-3621
PG36	PG29	50.00	9.00	12.50	CRRPG-3629
PG42	PG29	57.00	10.00	14.00	CRRPG-4229
PG42	PG36	57.00	10.00	14.00	CRRPG-4236
PG48	PG36	64.00	11.00	14.00	CRRPG-4836
PG48	PG42	64.00	11.00	14.00	CRRPG-4842

Hex Reducer

Cabtek offer a range of reducer and adaptor for industrial and hazardous area application which provide effectiveness connection between cable entry devices and equipment having dis-similar thread. Reducer are designed to reduce dissimilar thread.

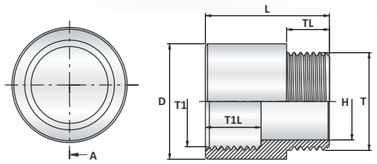


PG Thread Hex Reducer					
T2	T1	A/F	L	H	CAT NO.
PG9	PG7	17.00	6.00	8.50	CHRPG-97
PG11	PH7	20.00	6.00	8.50	CHRPG-117
PG11	PG9	20.00	6.00	8.50	CHRPG-119
PG13.5	PG7	22.00	6.50	9.00	CHRPG-137
PG13.5	PG9	22.00	6.50	9.00	CHRPG-139
PG13.5	PG11	22.00	6.50	9.00	CHRPG-1311
PG16	PG7	24.00	6.50	9.00	CHRPG-167
PG16	PG9	24.00	6.50	9.00	CHRPG-169
PG16	PG11	24.00	6.50	9.00	CHRPG-1611
PG16	PG13.5	24.00	6.50	9.00	CHRPG-1613
PG21	PG11	30.00	7.00	10.00	CHRPG-2111
PG21	PG13.5	30.00	7.00	10.00	CHRPG-2113
PG21	PG16	30.00	7.00	10.00	CHRPG-2116
PG29	PG13.5	39.00	8.00	11.50	CHRPG-2913
PG29	PG16	39.00	8.00	11.50	CHRPG-2916
PG29	PG21	39.00	8.00	11.50	CHRPG-2921

Metric Thread Hex Reducer					
T2	T1	A/F	L	H	CAT NO.
M16	M12	19.00	6.00	9.50	CHRM-1612
M20	M12	23.50	6.50	9.50	CHRM-2012
M20	M16	23.50	6.50	9.50	CHRM-2016
M25	M16	30.00	7.00	10.00	CHRM-2516
M25	M20	30.00	7.00	10.00	CHRM-2520
M32	M20	39.00	8.00	11.00	CHRM-3220
M32	M25	39.00	8.00	11.00	CHRM-3225
M40	M20	45.00	9.00	12.50	CHRM-4020
M40	M25	45.00	9.00	12.50	CHRM-4025
M40	M32	45.00	9.00	12.50	CHRM-4032
M50	M25	55.00	10.00	14.00	CHRM-5025
M50	M32	55.00	10.00	14.00	CHRM-5032
M50	M40	55.00	10.00	14.00	CHRM-5040
M63	M40	70.00	10.00	14.00	CHRM-6340
M63	M50	70.00	10.00	14.00	CHRM-6350
M75	M50	80.00	11.50	16.50	CHRM-7550
M75	M63	80.00	11.50	16.50	CHRM-7563

Round Adaptor

Cabtek offer a range of reducer and adaptor for industrial and hazardous area application which provide effectiveness connection between cable entry devices and equipment having dis-similar thread. Adaptors are used where the thread size of the cable gland or connection device is larger than, or of an equivalent size, to the entry thread of the enclosure.



PG to PG Adaptor

T1	T	D	T1L	TL	L	H	CAT NO.
PG7	PG9	17.00	6.00	5.00	15.00	9.00	CRAPG-79
PG9	PG11	20.00	7.00	6.00	16.00	11.50	CRAPG-911
PG9	PG13.5	22.00	7.00	6.00	16.00	11.50	CRAPG-913
PG11	PG13.5	22.00	8.50	6.50	17.00	14.00	CRAPG-1113
PG11	PG16	24.00	8.50	6.50	17.00	14.00	CRAPG-1116
PG11	PG21	30.00	8.50	6.50	17.00	14.00	CRAPG-1121
PG13.5	PG16	24.00	9.00	7.00	21.50	15.50	CRAPG-1316
PG13.5	PG21	30.00	9.00	7.00	21.50	15.50	CRAPG-1321
PG16	PG21	30.00	10.00	7.00	22.50	17.00	CRAPG-1621
PG16	PG29	39.00	10.00	7.00	22.50	17.00	CRAPG-1629
PG21	PG29	39.00	17.50	8.00	30.00	22.75	CRAPG-2129
PG29	PG36	50.00	17.50	8.00	30.00	31.50	CRAPG-2936
PG36	PG42	57.00	19.00	9.00	33.00	41.00	CRAPG-3642
PG42	PG48	64.00	19.50	10.00	33.50	47.50	CRAPG-4248

PG to Metric Adaptor

T1	T	D	T1L	TL	L	H	CAT NO.
M12	PG9	17.00	6.00	5.00	15.00	9.00	CRAPM-129
M16	PG11	20.00	7.00	5.00	15.00	12.00	CRAPM-1611
M20	PG16	24.00	7.50	6.00	18.00	15.00	CRAPM-2016
M25	PG21	30.00	8.00	7.00	21.00	20.50	CRAPM-2521
M32	PG29	39.00	8.50	8.00	23.00	27.00	CRAPM-3229
M40	PG36	50.00	9.00	8.00	24.00	35.00	CRAPM-4036
M50	PG42	58.00	9.50	9.00	26.00	45.00	CRAPM-5042
M63	PG48	64.00	10.00	9.00	26.00	57.00	CRAPM-6348

Metric to Metric Adaptor

T1	T	D	T1L	TL	L	H	CAT NO.
M12	M16	18.00	6.00	5.00	14.00	9.00	CRAM-1216
M16	M20	22.00	7.00	5.00	15.00	12.00	CRAM-1620
M20	M25	27.50	7.50	6.00	15.50	15.00	CRAM-2025
M25	M32	35.00	8.00	7.00	19.50	20.50	CRAM-2532
M32	M40	43.00	8.50	8.00	22.00	27.00	CRAM-3240
M40	M50	54.00	9.00	8.00	22.50	35.00	CRAM-4050
M50	M63	66.00	9.50	9.00	23.50	45.00	CRAM-5063
M63	M75	67.00	9.50	9.00	23.50	57.00	CRAM-6375

Hex Adaptor

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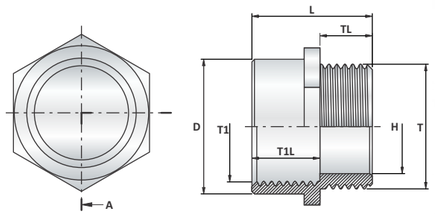

PG To Metric Adaptor

T	T1	D	T1L	TL	L	H	CAT NO.
PG9	M20	22.00	6.00	5.00	14.00	11.50	CHAPM-920
PG11	M20	22.00	7.00	5.00	15.00	14.00	CHAPM-1120
PG13.5	M20	22.00	7.50	6.00	15.50	15.50	CHAPM-1320
PG13.5	M25	27.50	8.00	7.00	19.50	15.50	CHAPM-1325
PG16	M25	27.50	8.50	8.00	22.00	17.00	CHAPM-1625
PG21	M32	35.00	9.00	8.00	22.50	22.75	CHAPM-2132
PG29	M40	43.00	9.50	9.00	23.50	31.50	CHAPM-2940
PG36	M50	54.00	9.50	9.00	23.50	41.00	CHAPM-3650
PG42	M63	66.00	9.50	9.50	24.00	47.50	CHAPM-4263
PG48	M63	66.00	9.50	9.50	24.00	53.20	CHAPM-4863

Metric to Metric Adaptor

T	T1	D	T1L	TL	L	H	CAT NO.
M12	M16	18.00	6.00	5.00	14.00	9.00	CHAM-1216
M16	M20	22.00	7.00	5.00	15.00	12.00	CHAM-1620
M20	M25	27.50	7.50	6.00	15.50	15.00	CHAM-2025
M25	M32	35.00	8.00	7.00	19.50	20.50	CHAM-2532
M32	M40	43.00	8.50	8.00	22.00	27.00	CHAM-3240
M40	M50	54.00	9.00	8.00	22.50	35.00	CHAM-4050
M50	M63	66.00	9.50	9.00	23.50	45.00	CHAM-5063
M63	M75	67.00	9.50	9.00	23.50	57.00	CHAM-6375