



Ex d / Ex e / Ex nR

INDUSTRIAL AND HAZARDOUS AREA
CABLE GLANDS AND ACCESSORIES

www.speedwellindia.com





Since 1982, Speedwell Industries and now known as Speedwell Technologies Pvt. Ltd., has earned the reputation as a Manufacturer of quality electrical components of Bronze, Copper, Brass, Stainless Steel and Aluminum especially for Grounding, Lightning Protection and Power Distribution system.

Our three production plants produce over 1200 product variants, ranging in various sizes of components that weigh few grams to a single casting weighing over 10 kilograms. We are able to produce world's best non-ferrous casting components with prompt verification of new design and repeated product performance.

Our multi-specialty, state of art manufacturing facilities allows our patrons to continuously introduce the best quality products worldwide through the network of manufacturers, representative organization and distributors. Speedwell basically provides its services to the Industries, Contractors, Utility sector and OEMs.

Speedwell has continued to expand its product range, Technology, know how, expertise and its presence by innovation, dedication and not least by word of experience - now it is well known as a consistent manufacturer of Quality Products from India.

System Certificates:

Product Certificates / Compliance:

ISO 9001 : 2015

IEC 60079 • IEC 62444 • IEC 60529 • BS 6121

ISO 14001: 2015

UL 467 • UL486 • UL 62275 • IEEE 80 • BS 7430

OHSAS 45001: 2018

IEC 62305 • IEC 61386 • IEC 61328 • IEC 62275

BENEFITS OF CHOOSING SPEEDWELL:

The benefits of coming to speedwell for electrical components are:

- ▶ With our manufacturing experiences of many decades we are able to utilise our knowledge of the products available to design, produce and even upgrade and invent new designs and components in the state of the art facilities
- ▶ Our expert team suggests an optimum system requirement - one that doesn't use excess materiel than necessary, resulting in saving your money
- ▶ We provide designed components that comply with all relevant national and international standards
- ▶ We are specialised in this field

PRODUCTS :

- **Cable Glands and Accessories**
- Grounding System
- Lightning Protection System
- Cable Conductors and Fixtures
- Copper, Aluminum and Bi-metallic cable Lugs and Connectors
- Overhead transmission line hardware and fittings
- Distribution and Panel Board Accessories
- Cable Clamping and Identification System

A **cable gland** is a mechanical device used to attach and secure the end of an electrical cable to equipment while providing Cable Retention, Sealing, Electrical Safety and Protection.



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Summary of ATEX 2014/34/EU Guidelines

The ATEX Directive 2014/34/EU governs the design, manufacture, and conformity of equipment and protective systems intended for use in potentially explosive atmospheres within the EU. This 5th Edition (March 2024) updates the 2014 guidance with clarifications based on expert group feedback and technological advancements.

Key Objectives:

- Ensure safety of people and property from explosion risks in hazardous atmospheres.
- Harmonize equipment standards across the EU.
- Replace the earlier Directive 94/9/EC from 20 April 2016 onward.

Key Provisions:

- 1. Scope & Definitions:** Applies to electrical and non-electrical equipment, protective systems, and safety components used in explosive atmospheres (gases, vapours, dust).
- 2. Classification:**
 - Group I: Mining.
 - Group II: Other explosive environments (e.g., chemical plants).
 - Categories M1, M2 (for Group I) and 1, 2, 3 (for Group II) define risk levels and protection requirements.
- 3. Essential Health & Safety Requirements (EHSRs):**
 - Found in Annex II. Manufacturers must consider ignition sources, explosion containment, and hazard minimization.
 - Can be met through harmonized European standards.
- 4. Conformity Assessment Modules (Annexes III–IX):**
 - Include procedures like EU-type examination, quality assurance of production, product verification, and unit verification.
- 5. Marking and Documentation:**
 - Products must carry CE marking and be supported by an EU Declaration of Conformity.
 - Temporary files must be retained for 10 years post-market entry.

ATEX Equipment Groups & Categories

ATEX Group	Equipment Category	Zone of Use	Level of Protection	Typical Usage
Group I (Mining)	Category M1	Underground mines with explosive atmospheres	Very high - remains safe even with two faults present	Mining equipment, ventilation systems
Group I (Mining)	Category M2	Underground mines where explosive atmospheres may occur	High - de-energized in explosive atmosphere, remains safe during operation	Lighting systems, drilling machines in mines
Group II (Non-mining)	Category 1	Zone 0 / Zone 20	Very high - remains safe even in the presence of rare faults	Inside fuel tanks, silos
Group II (Non-mining)	Category 2	Zone 1 / Zone 21	High - remains safe during expected disturbances or faults	Around pumps, valves, filling points
Group II (Non-mining)	Category 3	Zone 2 / Zone 22	Normal - suitable where explosive atmospheres are infrequent	Storage areas, occasional dust or gas presence

Gas Groups

Gas Group	Representative Gas	Explosion Risk	Typical Applications
Group IIA	Propane	Low	Petrochemical plants, refineries
Group IIB	Ethylene	Medium	Chemical plants, industrial gases
Group IIC	Hydrogen/ Acetylene	High	Pharmaceuticals, semiconductors, specialty chemicals

Dust Groups

Dust Group	Type of Dust	Explosion Risk	Typical Applications
Group IIIA	Combustible flying particles	Low	Woodworking, textile mills
Group IIIB	Non-conductive dust	Medium	Flour mills, food processing
Group IIIC	Conductive dust	High	Metal powders, carbon black, aluminium dust

Hazardous Area Zone

Zone	Type of Atmosphere	Presence of Explosive Atmosphere	Typical Environment
Zone 0	Gas/Vapour/Mist	Continuously or for long periods	Inside fuel tanks, process vessels
Zone 1	Gas/Vapour/Mist	Likely to occur during normal operations	Around pump seals, vents, valves
Zone 2	Gas/Vapour/Mist	Unlikely to occur in normal operation and if it occurs, will exist for a short period only	Near storage areas, piping connections
Zone 20	Dust	Continuously or for long periods	Inside silos, hoppers, powder-handling machinery
Zone 21	Dust	Likely to occur during normal operations	Around bagging or filling stations
Zone 22	Dust	Unlikely to occur in normal operation and if it occurs, will exist for a short period only	Near dust extraction systems, conveyor transfer points

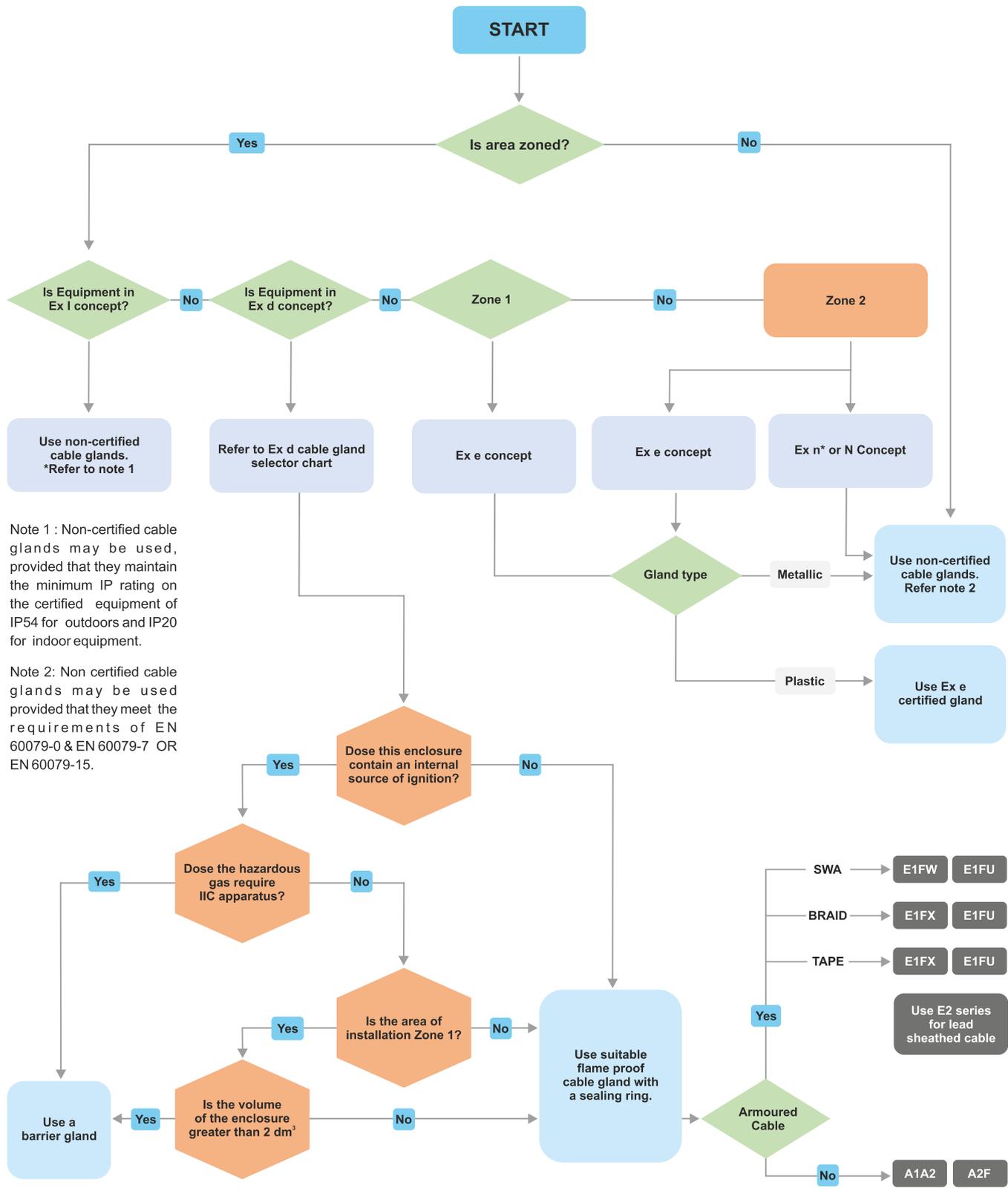
Ingress protection (IP) ratings guide

IP ratings are represented by combining the first and second digits of the below columns

1st numeral - solid foreign objects 2nd numeral - water

0	No protection		0	No protection	
1	Protected against solid foreign objects of 50 mm Ø and greater		1	Protected against vertically falling water drops	
2	Protected against solid foreign objects of 12.5 mm Ø and greater		2	Protected against vertically falling water drops when enclosure tilted up to 15	
3	Protected against solid foreign objects of 2.5 mm Ø and greater		3	Protected against spraying water	
4	Protected against solid foreign objects of 1.0 mm Ø and greater		4	Protected against splashing water	
5	Dust-protected		5	Protected against water jets	
6	Dust-tight		6	Protected against powerful water jets	
Example:			7	Protected against the effects of temporary immersion in water	
IP65 → Protected against water jets			8	Protected against the effects of continuous immersion in water	
IP6 → Dust-tight			9	Protected against high pressure and temperature water jets	

GLAND SELECTION CHART



Note 1 : Non-certified cable glands may be used, provided that they maintain the minimum IP rating on the certified equipment of IP54 for outdoors and IP20 for indoor equipment.

Note 2: Non certified cable glands may be used provided that they meet the requirements of EN 60079-0 & EN 60079-7 OR EN 60079-15.

**ATEX
HAZARDOUS
AREA
CABLE GLANDS**



E1FW

Ex e / Ex d

For all types of Steel & Aluminium Wire Armoured Cables

The E1FW certified Flameproof Exd & Increased Safety Exe cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Area with Single Wire Armour (SWA) cable. Reversible Armour Clamping Ring (RAC) allows use with all types of Steel & Aluminium Wire Armoured Cable



- | | | |
|-----------------|--|--------------------|
| 1. Lock Nut | 5. Ring body | 8. Outer Sealing |
| 2. Gland body | 6. Reversible Armour Clamping Ring (RAC) | 9. Protection Tube |
| 3. Inner seal | 7. Middle body | 10. Cable nut |
| 4. Inner washer | | |

Technical Details

Design Standard	EN 60079-0:2012 +A11 : 2013 EN 60079-1:2014, EN 60079-31:2014, BS6121, EN 62444:2013, IEC 60529
Certification	II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67
Certificate	TI25ATEX 10504 X
IP Rating	IP 67
Gland Marking	SPEEDWELL II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67 TI25ATEX 10504 X
Operating Temperature	The standard cable sealing washer (EPDM Elastomeric Sealing Ring) used and is suitable for operating temperature -60°C ≤ Tamb ≤ +125°C
Materials	Brass : BS 2874 CZ121 /IS 319 gr.I Stainless Steel: ASTM A314 gr. 304/316 L Mild Steel
Threads	ISO Metric National pipe Thread (NPT), British Standard pipe (BSP), Imperial (ET)
Plating	Brass Finish / Nickel Finish /Chrome Finish
Accessories	Lock Nut, Earth Tag, IP Nylon Washer, Serrated Washer, PVC / LSF Shroud.

A – Cable Bedding Diameter B - Overall Cable Diameter

Part No.	Entry Threads Options			Thread Length			Cable Dimensions (mm)				Armour Acceptance Range	
	Metric (ISO)	NPT/ BSP	ET	Metric (ISO)	NPT/ BSP	ET	Cable Dia (A)		Cable Dia (B)		W	XYZ
							Min	Max	Min	Max		
S1-E1FW20S-BR	M20S	½"	¾"	15	19	16.5	6.1	11.6	9.5	15.9	0.90/1.25	0.15/0.35
S1-E1FW20L-BR	M20L	½"	¾"	15	19	16.5	6.5	13.9	12.5	20.9	0.90/1.25	0.15/0.50
S1-E1FW25L-BR	M25L	¾"	1"	15	20	16.5	11.1	19.9	17	26.2	1.25/1.60	0.15/0.50
S1-E1FW32L-BR	M32L	1"	1.¼"	15	22	16.5	17.0	26.2	22.9	33.9	1.60/2.00	0.15/0.55
S1-E1FW40L-BR	M40L	1.¼"	1.½"	15	22	16.5	22.0	32.1	26.0	44.4	1.60/2.00	0.20/0.60
S1-E1FW50S-BR	M50S	1.½"	2"	20	22	20	29.5	38.1	35.0	46.7	2.00/2.5	0.20/0.60
S1-E1FW50L-BR	M50L	2"	2"	20	22	20	35.6	44.0	38.0	53.1	2.00/2.5	0.30/0.80
S1-E1FW63S-BR	M63S	2"	2.½"	20	22	20	40.1	49.9	45.6	59.4	2.5	0.30/0.80
S1-E1FW63L-BR	M63L	2.½"	2.½"	20	29	20	47.2	55.9	54.6	65.9	2.5	0.30/0.80
S1-E1FW75S-BR	M75S	2.½"	3"	20	29	20	52.8	61.9	57.0	72.1	2.5	0.30/1.00
S1-E1FW75L-BR	M75L	3"	3"	20	29	20	59.1	67.9	60.4	78.5	2.5	0.30/1.00
S1-E1FW90L-BR	M90L	3"		20	29	20	66.6	79.3	69.2	90.4	3.15	0.45/1.00

*Replace suffix 'BR' with 'NB' for Nickel Plated brass, 'MS' for mild steel, 'SS' for Stainless Steel, 'AL' for Aluminium

E2FW

Ex e / Ex d

For Lead Sheathed Steel & Aluminium Wire Armoured Cables

The E2FW certified Flameproof Exd & Increased Safety Exe cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Area with Lead Sheathed Single Armoured cables. Reversible Armour Clamping Ring (RAC) allows use with all types of Steel & Aluminium Wire Armoured Cable



- | | | |
|-----------------|--|--------------------|
| 1. Lock Nut | 5. Ring body | 8. Outer Sealing |
| 2. Gland body | 6. Reversible Armour Clamping Ring (RAC) | 9. Protection Tube |
| 3. Inner seal | 7. Middle body | 10. Cable nut |
| 4. Inner washer | | |

Technical Details

Design Standard	EN 60079-0:2012 +A11 : 2013 EN 60079-1:2014, EN 60079-31:2014, BS6121, EN 62444:2013, IEC 60529
Certification	II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67
Certificate	TI25ATEX 10504 X
IP Rating	IP 67
Gland Marking	SPEEDWELL II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67 TI25ATEX 10504 X
Operating Temperature	The standard cable sealing washer (EPDM Elastomeric Sealing Ring) used and is suitable for operating temperature -60°C ≤ Tamb ≤ +125°C
Materials	Brass : BS 2874 CZ121 /IS 319 gr.I Stainless Steel: ASTM A314 gr. 304/316 L Mild Steel
Threads	ISO Metric National pipe Thread (NPT), British Standard pipe (BSP), Imperial (ET)
Plating	Brass Finish / Nickel Finish /Chrome Finish
Accessories	Lock Nut, Earth Tag, IP Nylon Washer, Serrated Washer, PVC / LSF Shroud.

A – Cable Bedding Diameter B - Overall Cable Diameter

Part No.	Entry Threads Options			Thread Length			Cable Dimensions (mm)				Armour Acceptance Range	
	Metric (ISO)	NPT/ BSP	ET	Metric (ISO)	NPT/ BSP	ET	Cable Dia (A)		Cable Dia (B)		W	XYZ
							Min	Max	Min	Max		
S2-E2FW20S-BR	M20S	½"	¾"	15	19	16.5	6.1	11.6	9.5	15.9	0.90/1.25	0.15/0.35
S2-E2FW20L-BR	M20L	½"	¾"	15	19	16.5	6.5	13.9	12.5	20.9	0.90/1.25	0.15/0.50
S2-E2FW25L-BR	M25L	¾"	1"	15	20	16.5	11.1	19.9	17	26.2	1.25/1.60	0.15/0.50
S2-E2FW32L-BR	M32L	1"	1.¼"	15	22	16.5	17.0	26.2	22.9	33.9	1.60/2.00	0.15/0.55
S2-E2FW40L-BR	M40L	1.¼"	1.½"	15	22	16.5	22.0	32.1	26.0	44.4	1.60/2.00	0.20/0.60
S2-E2FW50S-BR	M50S	1.½"	2"	20	22	20	29.5	38.1	35.0	46.7	2.00/2.5	0.20/0.60
S2-E2FW50L-BR	M50L	2"	2"	20	22	20	35.6	44.0	38.0	53.1	2.00/2.5	0.30/0.80
S2-E2FW63S-BR	M63S	2"	2.½"	20	22	20	40.1	49.9	45.6	59.4	2.5	0.30/0.80
S2-E2FW63L-BR	M63L	2.½"	2.½"	20	29	20	47.2	55.9	54.6	65.9	2.5	0.30/0.80
S2-E2FW75S-BR	M75S	2.½"	3"	20	29	20	52.8	61.9	57.0	72.1	2.5	0.30/1.00
S2-E2FW75L-BR	M75L	3"	3"	20	29	20	59.1	67.9	60.4	78.5	2.5	0.30/1.00
S2-E2FW90L-BR	M90L	3"	3 ½"	20	29	20	66.6	79.3	69.2	90.4	3.15	0.45/1.00

*Replace suffix 'BR' with 'NB' for Nickel Plated brass, 'MS' for mild steel, 'SS' for Stainless Steel, 'AL' for Aluminium

E1FX

Ex e / Ex d

For Braid & Steel Tape Armoured Cables

The E1FX certified Flameproof Exd & Increased Safety Exe cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Area with Braided & Steel & Tape Armoured Cables.



- | | | |
|-----------------|--|--------------------|
| 1. Lock Nut | 5. Ring body | 8. Outer Sealing |
| 2. Gland body | 6. Reversible Armour Clamping Ring (RAC) | 9. Protection Tube |
| 3. Inner seal | 7. Middle body | 10. Cable nut |
| 4. Inner washer | | |

Technical Details

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IP Rating	IP 67
Gland Marking	SPEEDWELL II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67 TI25ATEX 10504 X
Operating Temperature	The standard cable sealing washer (EPDM Elastomeric Sealing Ring) used and is suitable for operating temperature -60°C ≤ Tamb ≤ +125°C
Materials	Brass : BS 2874 CZ121 /IS 319 gr.I Stainless Steel: ASTM A314 gr. 304/316 L Mild Steel
Threads	ISO Metric National pipe Thread (NPT), British Standard pipe (BSP), Imperial (ET)
Plating	Brass Finish / Nickel Finish /Chrome Finish
Accessories	Lock Nut, Earth Tag, IP Nylon Washer, Serrated Washer, PVC / LSF Shroud.

A – Cable Bedding Diameter B - Overall Cable Diameter

Part No.	Entry Threads Options			Thread Length			Cable Dimensions (mm)				Armour Acceptance Range	
	Metric (ISO)	NPT/ BSP	ET	Metric (ISO)	NPT/ BSP	ET	Cable Dia (A)		Cable Dia (B)		W	XYZ
							Min	Max	Min	Max		
S3-E1FX20S-BR	M20S	½"	¾"	15	19	16.5	6.1	11.6	9.5	15.9	0.90/1.25	0.15/0.35
S3-E1FX20L-BR	M20L	½"	¾"	15	19	16.5	6.5	13.9	12.5	20.9	0.90/1.25	0.15/0.50
S3-E1FX25L-BR	M25L	¾"	1"	15	20	16.5	11.1	19.9	17	26.2	1.25/1.60	0.15/0.50
S3-E1FX32L-BR	M32L	1"	1.¼"	15	22	16.5	17.0	26.2	22.9	33.9	1.60/2.00	0.15/0.55
S3-E1FX40L-BR	M40L	1.¼"	1.½"	15	22	16.5	22.0	32.1	26.0	44.4	1.60/2.00	0.20/0.60
S3-E1FX50S-BR	M50S	1.½"	2"	20	22	20	29.5	38.1	35.0	46.7	2.00/2.5	0.20/0.60
S3-E1FX50L-BR	M50L	2"	2"	20	22	20	35.6	44.0	38.0	53.1	2.00/2.5	0.30/0.80
S3-E1FX63S-BR	M63S	2"	2.½"	20	22	20	40.1	49.9	45.6	59.4	2.5	0.30/0.80
S3-E1FX63L-BR	M63L	2.½"	2.½"	20	29	20	47.2	55.9	54.6	65.9	2.5	0.30/0.80
S3-E1FX75S-BR	M75S	2.½"	3"	20	29	20	52.8	61.9	57.0	72.1	2.5	0.30/1.00
S3-E1FX75L-BR	M75L	3"	3"	20	29	20	59.1	67.9	60.4	78.5	2.5	0.30/1.00
S3-E1FX90L-BR	M90L	3"	3 ½"	20	29	20	66.6	79.3	69.2	90.4	3.15	0.45/1.00

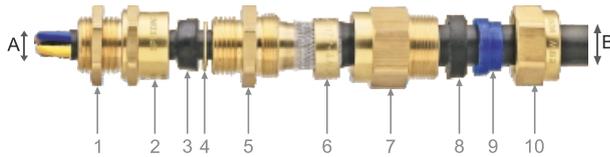
*Replace suffix 'BR' with 'NB' for Nickel Plated brass, 'MS' for mild steel, 'SS' for Stainless Steel, 'AL' for Aluminium

E2FX

Ex e / Ex d

For Lead Sheathed Braided & Steel & Tape Armoured Cables

The E2FX certified Flameproof Ex d & Increased Safety Exe cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Area with Lead Sheathed Braided & Steel Tape Armoured Cables



- | | | |
|-----------------|--|--------------------|
| 1. Lock Nut | 5. Ring body | 8. Outer Sealing |
| 2. Gland body | 6. Reversible Armour Clamping Ring (RAC) | 9. Protection Tube |
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Part No.	Entry Threads Options			Thread Length			Cable Dimensions (mm)				Armour Acceptance Range	
	Metric (ISO)	NPT/ BSP	ET	Metric (ISO)	NPT/ BSP	ET	Cable Dia (A)		Cable Dia (B)		W	XYZ
							Min	Max	Min	Max		
S4-E2FX20S-BR	M20S	½"	¾"	15	19	16.5	6.1	11.6	9.5	15.9	0.90/1.25	0.15/0.35
S4-E2FX20L-BR	M20L	½"	¾"	15	19	16.5	6.5	13.9	12.5	20.9	0.90/1.25	0.15/0.50
S4-E2FX25L-BR	M25L	¾"	1"	15	20	16.5	11.1	19.9	17	26.2	1.25/1.60	0.15/0.50
S4-E2FX32L-BR	M32L	1"	1.¼"	15	22	16.5	17.0	26.2	22.9	33.9	1.60/2.00	0.15/0.55
S4-E2FX40L-BR	M40L	1.¼"	1.½"	15	22	16.5	22.0	32.1	26.0	44.4	1.60/2.00	0.20/0.60
S4-E2FX50S-BR	M50S	1.½"	2"	20	22	20	29.5	38.1	35.0	46.7	2.00/2.5	0.20/0.60
S4-E2FX50L-BR	M50L	2"	2"	20	22	20	35.6	44.0	38.0	53.1	2.00/2.5	0.30/0.80
S4-E2FX63S-BR	M63S	2"	2.½"	20	22	20	40.1	49.9	45.6	59.4	2.5	0.30/0.80
S4-E2FX63L-BR	M63L	2.½"	2.½"	20	29	20	47.2	55.9	54.6	65.9	2.5	0.30/0.80
S4-E2FX75S-BR	M75S	2.½"	3"	20	29	20	52.8	61.9	57.0	72.1	2.5	0.30/1.00
S4-E2FX75L-BR	M75L	3"	3"	20	29	20	59.1	67.9	60.4	78.5	2.5	0.30/1.00
S4-E2FX90L-BR	M90L	3"	3 ½"	20	29	20	66.6	79.3	69.2	90.4	3.15	0.45/1.00

*Replace suffix 'BR' with 'NB' for Nickel Plated brass, 'MS' for mild steel, 'SS' for Stainless Steel, 'AL' for Aluminium

E1FU

Ex e / Ex d

For All the type of Armoured Cables

The E1FU certified Flameproof Ex d & Increased Safety Exe cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Area with all the type of Armoured Cables.



- | | | |
|-----------------|--|--------------------|
| 1. Lock Nut | 5. Ring body | 8. Outer Sealing |
| 2. Gland body | 6. Reversible Armour Clamping Ring (RAC) | 9. Protection Tube |
| 3. Inner seal | 7. Middle body | 10. Cable nut |
| 4. Inner washer | | |

Technical Details

Design Standard	EN 60079-0:2012 +A11 : 2013 EN 60079-1:2014, EN 60079-31:2014, BS6121, EN 62444:2013, IEC 60529
Certification	II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67
Certificate	TI25ATEX 10504 X
IP Rating	IP 67
Gland Marking	SPEEDWELL II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67 TI25ATEX 10504 X
Operating Temperature	The standard cable sealing washer (EPDM Elastomeric Sealing Ring) used and is suitable for operating temperature -60°C ≤ Tamb ≤ +125°C
Materials	Brass : BS 2874 CZ121 /IS 319 gr.I Stainless Steel: ASTM A314 gr. 304/316 L Mild Steel
Threads	ISO Metric National pipe Thread (NPT), British Standard pipe (BSP), Imperial (ET)
Plating	Brass Finish / Nickel Finish /Chrome Finish
Accessories	Lock Nut, Earth Tag, IP Nylon Washer, Serrated Washer, PVC / LSF Shroud.

A – Cable Bedding Diameter B - Overall Cable Diameter

Part No.	Entry Threads Options			Thread Length			Cable Dimensions (mm)				Armour Acceptance Range	
	Metric (ISO)	NPT/ BSP	ET	Metric (ISO)	NPT/ BSP	ET	Cable Dia (A)		Cable Dia (B)		W	XYZ
							Min	Max	Min	Max		
S5-E1FU20S-BR	M20S	½"	¾"	15	19	16.5	6.1	11.6	9.5	15.9	0.90/1.25	0.15/0.35
S5-E1FU20L-BR	M20L	½"	¾"	15	19	16.5	6.5	13.9	12.5	20.9	0.90/1.25	0.15/0.50
S5-E1FU25L-BR	M25L	¾"	1"	15	20	16.5	11.1	19.9	17	26.2	1.25/1.60	0.15/0.50
S5-E1FU32L-BR	M32L	1"	1.¼"	15	22	16.5	17.0	26.2	22.9	33.9	1.60/2.00	0.15/0.55
S5-E1FU40L-BR	M40L	1.¼"	1.½"	15	22	16.5	22.0	32.1	26.0	44.4	1.60/2.00	0.20/0.60
S5-E1FU50S-BR	M50S	1.½"	2"	20	22	20	29.5	38.1	35.0	46.7	2.00/2.5	0.20/0.60
S5-E1FU50L-BR	M50L	2"	2"	20	22	20	35.6	44.0	38.0	53.1	2.00/2.5	0.30/0.80
S5-E1FU63S-BR	M63S	2"	2.½"	20	22	20	40.1	49.9	45.6	59.4	2.5	0.30/0.80
S5-E1FU63L-BR	M63L	2.½"	2.½"	20	29	20	47.2	55.9	54.6	65.9	2.5	0.30/0.80
S5-E1FU75S-BR	M75S	2.½"	3"	20	29	20	52.8	61.9	57.0	72.1	2.5	0.30/1.00
S5-E1FU75L-BR	M75L	3"	3"	20	29	20	59.1	67.9	60.4	78.5	2.5	0.30/1.00
S5-E1FU90L-BR	M90L	3"	3 ½"	20	29	20	66.6	79.3	69.2	90.4	3.15	0.45/1.00

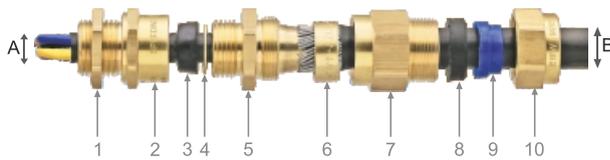
*Replace suffix 'BR' with 'NB' for Nickel Plated brass, 'MS' for mild steel, 'SS' for Stainless Steel, 'AL' for Aluminium

E2FU

Ex e / Ex d

For all the kind of Lead Sheathed Armoured Cables

The E2FU certified Flameproof Ex d & Increased Safety Exe cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Area with all the kind of Lead Sheathed Armoured Cables.



- | | | |
|-----------------|--|--------------------|
| 1. Lock Nut | 5. Ring body | 8. Outer Sealing |
| 2. Gland body | 6. Reversible Armour Clamping Ring (RAC) | 9. Protection Tube |
| 3. Inner seal | 7. Middle body | 10. Cable nut |
| 4. Inner washer | | |

Technical Details

Design Standard	EN 60079-0:2012 +A11 : 2013 EN 60079-1:2014, EN 60079-31:2014, BS6121, EN 62444:2013, IEC 60529
Certification	II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67
Certificate	TI25ATEX 10504 X
IP Rating	IP 67
Gland Marking	SPEEDWELL II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67 TI25ATEX 10504 X
Operating Temperature	The standard cable sealing washer (EPDM Elastomeric Sealing Ring) used and is suitable for operating temperature -60°C ≤ Tamb ≤ +125°C
Materials	Brass : BS 2874 CZ121 /IS 319 gr.I Stainless Steel: ASTM A314 gr. 304/316 L Mild Steel
Threads	ISO Metric National pipe Thread (NPT), British Standard pipe (BSP), Imperial (ET)
Plating	Brass Finish / Nickel Finish /Chrome Finish
Accessories	Lock Nut, Earth Tag, IP Nylon Washer, Serrated Washer, PVC / LSF Shroud.

A – Cable Bedding Diameter B - Overall Cable Diameter

Part No.	Entry Threads Options			Thread Length			Cable Dimensions (mm)				Armour Acceptance Range	
	Metric (ISO)	NPT/ BSP	ET	Metric (ISO)	NPT/ BSP	ET	Cable Dia (A)		Cable Dia (B)		W	XYZ
							Min	Max	Min	Max		
S6-E2FU20S-BR	M20S	½"	¾"	15	19	16.5	6.1	11.6	9.5	15.9	0.90/1.25	0.15/0.35
S6-E2FU20L-BR	M20L	½"	¾"	15	19	16.5	6.5	13.9	12.5	20.9	0.90/1.25	0.15/0.50
S6-E2FU25L-BR	M25L	¾"	1"	15	20	16.5	11.1	19.9	17	26.2	1.25/1.60	0.15/0.50
S6-E2FU32L-BR	M32L	1"	1.¼"	15	22	16.5	17.0	26.2	22.9	33.9	1.60/2.00	0.15/0.55
S6-E2FU40L-BR	M40L	1.¼"	1.½"	15	22	16.5	22.0	32.1	26.0	44.4	1.60/2.00	0.20/0.60
S6-E2FU50S-BR	M50S	1.½"	2"	20	22	20	29.5	38.1	35.0	46.7	2.00/2.5	0.20/0.60
S6-E2FU50L-BR	M50L	2"	2"	20	22	20	35.6	44.0	38.0	53.1	2.00/2.5	0.30/0.80
S6-E2FU63S-BR	M63S	2"	2.½"	20	22	20	40.1	49.9	45.6	59.4	2.5	0.30/0.80
S6-E2FU63L-BR	M63L	2.½"	2.½"	20	29	20	47.2	55.9	54.6	65.9	2.5	0.30/0.80
S6-E2FU75S-BR	M75S	2.½"	3"	20	29	20	52.8	61.9	57.0	72.1	2.5	0.30/1.00
S6-E2FU75L-BR	M75L	3"	3"	20	29	20	59.1	67.9	60.4	78.5	2.5	0.30/1.00
S6-E2FU90L-BR	M90L	3"	3 ½"	20	29	20	66.6	79.3	69.2	90.4	3.15	0.45/1.00

*Replace suffix 'BR' with 'NB' for Nickel Plated brass, 'MS' for mild steel, 'SS' for Stainless Steel, 'AL' for Aluminium

A2F

Ex e / Ex d

For All the type of Unarmoured and braid armoured Cables

The A2F is single compression gland series certified Flameproof Ex d & Increased Safety Exe cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Area with all the type of Unarmoured and braid armoured cable.



- 1. Bush
- 2. Brass Washer
- 3. Sealing Ring
- 4. Gland body
- 5. Thread Seal
- 6. Lock Nut

Technical Details

Design Standard	EN 60079-0:2012 +A11 : 2013 EN 60079-1:2014, EN 60079-31:2014, BS6121, EN 62444:2013, IEC 60529
Certification	II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67
Certificate	TI25ATEX 10501 X
IP Rating	IP 67
Gland Marking	SPEEDWELL II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67 TI25ATEX 10501 X
Operating Temperature	The standard cable sealing washer (EPDM Elastomeric Sealing Ring) used and is suitable for operating temperature -60°C ≤ Tamb ≤ +125°C
Materials	Brass : BS 2874 CZ121 /IS 319 gr.I Stainless Steel: ASTM A314 gr. 304/316 L Mild Steel
Threads	ISO Metric National pipe Thread (NPT), British Standard pipe (BSP), Imperial (ET)
Plating	Brass Finish / Nickel Finish /Chrome Finish
Accessories	Lock Nut, Earth Tag, IP Nylon Washer, Serrated Washer, PVC / LSF Shroud.

A – Cable Diameter

Part No.	Entry Threads Options			Thread Length			Cable Dimensions (mm)	
	Metric (ISO)	NPT/BSP	ET	Metric (ISO)	NPT/BSP	ET	Cable Dia (A)	
							Min	Max
S7-A2F20S-BR	M20S	½"	¾"	15	19	16.5	6.1	11.6
S7-A2F20L-BR	M20L	½"	¾"	15	19	16.5	6.5	13.9
S7-A2F25L-BR	M25L	¾"	1"	15	20	16.5	11.1	19.9
S7-A2F32L-BR	M32L	1"	1¼"	15	22	16.5	17	26.2
S7-A2F40L-BR	M40L	1¼"	1½"	15	22	16.5	22	32.1
S7-A2F50S-BR	M50S	1½"	2"	20	22	20	29.5	38.1
S7-A2F50L-BR	M50L	2"	2"	20	22	20	35.6	44
S7-A2F63S-BR	M63S	2"	2½"	20	22	20	40.1	49.9
S7-A2F63L-BR	M63L	2½"	2½"	20	29	20	47.2	55.9
S7-A2F75S-BR	M75S	2½"	3"	20	29	20	52.8	61.9
S7-A2F75L-BR	M75L	3"	3"	20	29	20	59.1	67.9
S7-A2F90L-BR	M90L	3"	3 ½"	20	29	20	66.6	79.3

*Replace suffix 'BR' with 'NB' for Nickel Plated brass, 'MS' for mild steel, 'SS' for Stainless Steel, 'AL' for Aluminium

A1A2

Ex e / Ex d

For All the type of Unarmoured and braid armoured Cables

The A2F is single compression gland series certified Flameproof Ex d & Increased Safety Exe cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Area with all the type of Unarmoured and braid armoured cable.



- 1. Bush
- 2. Nylon Washer
- 3. Sealing Ring
- 4. Gland body
- 5. Thread Seal
- 6. Lock Nut

Technical Details

Design Standard	EN 60079-0:2012 +A11 : 2013 EN 60079-1:2014, EN 60079-31:2014, BS6121, EN 62444:2013, IEC 60529
Certification	II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67
Certificate	TI25ATEX 10501 X
IP Rating	IP 67
Gland Marking	SPEEDWELL II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67 TI25ATEX 10501 X
Operating Temperature	The standard cable sealing washer (EPDM Elastomeric Sealing Ring) used and is suitable for operating temperature -60°C ≤ Tamb ≤ +125°C
Materials	Brass : BS 2874 CZ121 /IS 319 gr.I Stainless Steel: ASTM A314 gr. 304/316 L Mild Steel
Threads	ISO Metric National pipe Thread (NPT), British Standard pipe (BSP), Imperial (ET)
Plating	Brass Finish / Nickel Finish /Chrome Finish
Accessories	Lock Nut, Earth Tag, IP Nylon Washer, Serrated Washer, PVC / LSF Shroud.

A – Cable Diameter

Part No.	Entry Threads Options			Thread Length			Cable Dimensions (mm)	
	Metric (ISO)	NPT/BSP	ET	Metric (ISO)	NPT/BSP	ET	Cable Dia (A)	
							Min	Max
S8-A1A220S-BR	M20S	½"	¾"	15	19	16.5	8	11.5
S8-A1A220L-BR	M20L	½"	¾"	15	19	16.5	11	13.5
S8-A1A225S-BR	M25S	¾"	1"	15	20	16.5	13	16.5
S8-A1A225L-BR	M25L	¾"	1"	15	20	16.5	16	19.5
S8-A1A232S-BR	M25L	1"	1.¼"	15	22	16.5	19	25.5
S8-A1A232L-BR	M32L	1"	1.¼"	15	22	16.5	19	25.5
S8-A1A240S-BR	M40S	1.¼"	1.½"	15	22	16.5	23	29
S8-A1A240L-BR	M40L	1.¼"	1.½"	15	22	16.5	25	32
S8-A1A250S-BR	M50S	1.½"	2"	20	22	20	31.5	37
S8-A1A250L-BR	M50L	2"	2"	20	22	20	36.5	43
S8-A1A263S-BR	M63S	2"	2.½"	20	22	20	42.5	50
S8-A1A263L-BR	M63L	2.½"	2.½"	20	29	20	49.5	55
S8-A1A275S-BR	M75S	2.½"	3"	20	29	20	54.5	61
S8-A1A275L-BR	M75L	3"	3"	20	29	20	60.5	67
S8-A1A290L-BR	M90L	3"	3 ½"	20	29	20	65	78

*Replace suffix 'BR' with 'NB' for Nickel Plated brass, 'MS' for mild steel, 'SS' for Stainless Steel, 'AL' for Aluminium

HOW TO ORDER

Ordering References for Adaptors, Reducers & Stopper Plugs

ORDERING : BRASS STOPPING PLUG 20MM

Product Type	Material	Thread Form	Thread Size		
From TABLE A	From TABLE B	From TABLE C	From TABLE D		
SA	BR	M	3		
Part No : # SABRM3					
for Dimension Visit Product Page 14	Metric (M)	A	B	C	D
	M 12 x 1.5	15	5	16	18
	M 16 x 1.5	15	5	20	22
	M 20 x 1.5	15	5	24	26

TABLE A - PRODUCT

Product	CODE		
	No Seal	O Ring	IP washer
ADAPTOR	AR	ARO	ARW
REDUCER TYPE A	RA	RAO	RAW
REDUCER TYPE B	RB	RBO	RBO
STOPPING PLUG TYPE A	SA	SAO	SAW
STOPPING PLUG TYPE B	SB	SB0	SBW

ORDERING : BRASS REDUCER (M) 3/4" X (F) M16

Products Type	Material	Thread			
		Type	Male	Type	Female
From	From	From	From	From	From
TABLE A	TABLE B	TABLE C	TABLE D	TABLE C	TABLE D
RA	BR	T	3	M	2
Part No : #RABRT3M2					
Dimension reference at Page 16 Visit Selection Chart at Page 17					

TABLE B - MATERIAL

Material	CODE
BRASS	BR
SS316	SS
MILD STEEL	MS
NICKEL PLATED BRASS	NB

TABLE C - THREAD FORM

Type	CODE
METRIC	M
NPT	T
PG	P
BSP	B
BSPT	S
ET	I

ORDERING : BRASS ADAPTOR 20MM X (F) 25MM WITH O-RING

Products Type	Material	Thread			
		Type	Male	Type	Female
From	From	From	From	From	From
TABLE A	TABLE B	TABLE C	TABLE D	TABLE C	TABLE D
ARO	BR	M	3	M	4
Part No : #AROBRM3M4					
Dimension reference at Page 16 Visit Selection Chart at Page 17					

TABLE D - THREAD SIZE

CODE	Thread size					
	METRIC	NPT	PG	BSP	BSPT	ET
	M	T	P	B	S	I
1	M12	3/8"	7	3/8"	3/8"	1/2"
2	M16	1/2"	9	1/2"	1/2"	5/8"
3	M20	3/4"	11	3/4"	3/4"	3/4"
4	M25	1"	13.5	1"	1"	1"
5	M32	1.1/4"	16	1.1/4"	1.1/4"	1.1/4"
6	M40	1.1/2"	21	1.1/2"	1.1/2"	1.1/2"
7	M50	2"	29	2"	2"	2"
8	M63	2.1/2"	36	2.1/2"	2.1/2"	2.1/2"
9	M75	3"	42	3"	3"	3"
10	M90		48			3.1/2"

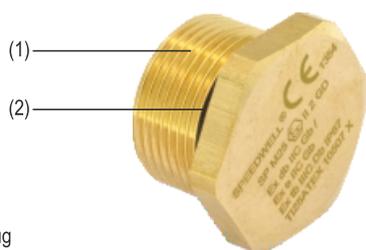
Stopper Plug

Ex e / Ex d

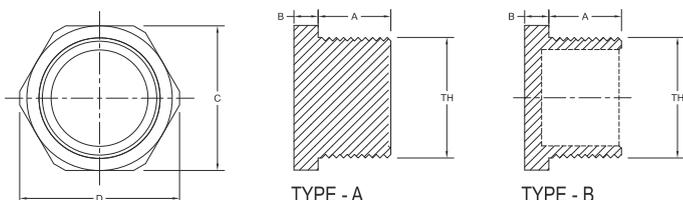
Equipment or Protective System intended for use in Potentially explosive atmospheres directive 2014/34 EU

Stopping plug is suitable to provide a permanent or temporary means of blanking unused cable entry holes Flameproof or increased Safety enclosure.

For use with Zone 1, Zone 2, Zone 21 and Zone 22 areas. Group IIA, IIB, IIC.



(1) Stop Plug
(2) Sealing Ring



Technical Details

Design Standard	EN 60079-0:2012 +A11 : 2013 EN 60079-1:2014, EN 60079-31:2014
Certification	II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67
Certificate	TI25ATEX 10507 X
IP Rating	IP 67
Marking	SPEEDWELL II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67 TI25ATEX 10507 X
Materials	BRASS: BS 2874 CZ121 /IS 319 gr.I Stainless Steel : ASTM A314 gr. 304/316 L Mild Steel
Threads	ISO Metric National pipe Thread (NPT) British Standard pipe (BSP), Imperial (ET)
Plating	Brass Finish / Nickel Finish /Chrome Finish
Accessories	Lock Nut, Earth Tag, IP Nylon Washer, Serrated Washer, PVC / LSF Shroud.
Materials	Brass : BS 2874 CZ121 /IS 319 gr.I Stainless Steel: ASTM A314 gr. 304/316 L Mild Steel
Threads	ISO Metric National pipe Thread (NPT), British Standard pipe (BSP), Imperial (ET)
Plating	Brass Finish / Nickel Finish /Chrome Finish
Accessories	Lock Nut, IP Washer

Metric (M)	A	B	C	D	NPT (N)	A	B	C	D	BSP (B)	A	B	C	D
M 12 x 1.5	15	5	16	18	¼" NPT	15	5	16	17.6	¼"	15	5	16	17.6
M 16 x 1.5	15	5	20	22	⅜" NPT	15	5	20	22	⅜"	15	5	24	26.4
M 20 x 1.5	15	5	24	26	½" NPT	18	5	24	26.4	½"	15	5	26	28.6
M 25 x 1.5	15	5	30	33	¾" NPT	18	5	30	33	¾"	15	5	30	33
M 32 x 1.5	15	5	36	40	1" NPT	22	5	36	39.6	1"	16	5	36	39.6
M 40 x 1.5	15	5	45	50	1.¼" NPT	22	5	45	49.5	1.¼"	17	5	45	49.5
M 50 x 1.5	15	8	55	60	1.½" NPT	24	8	50	55	1.½"	17	8	50	55
M 63 x 1.5	15	8	68	74	2" NPT	24	8	68	74	2"	18	8	68	74
M 75 x 1.5	20	8	80	86	2.¼" NPT	28	8	80	86	2.¼"	20	8	80	86
M 90 x 1.5	20	8	100	107	3" NPT	28	8	100	107	3"	20	8	100	107

BSPT (S)	A	B	C	D	PG (P)	A	B	C	D	ET (I)	A	B	C	D
¼"	15	5	16	17.6	PG 7	15	5	16	17.6	ET ¼"	15	5	16	18
⅜"	15	5	20	22	PG 9	15	5	20	22	ET ⅜"	15	5	20	22
½"	18	5	24	26.4	PG 11	15	5	24	26.4	ET ½"	15	5	24	26
¾"	18	5	27	29.7	PG 13.5	15	5	26	28.6	ET ¾"	15	5	30	33
1"	23	5	36	39.6	PG 16	15	5	26	28.6	ET 1"	15	5	36	40
1.¼"	23	5	45	49.5	PG 21	15	5	32	35	ET 1.¼"	15	5	45	50
1.½"	24	8	50	55	PG 29	15	5	40	44	ET 1.½"	15	8	55	60
2"	24	8	68	74	PG 36	15	8	50	55	ET 2"	15	8	68	74
2.¼"	28	8	80	86	PG 42	20	8	60	65	ET 2.¼"	20	8	80	86
3"	28	8	100	107	PG 48	20	8	68	74	ET 3"	20	8	100	107

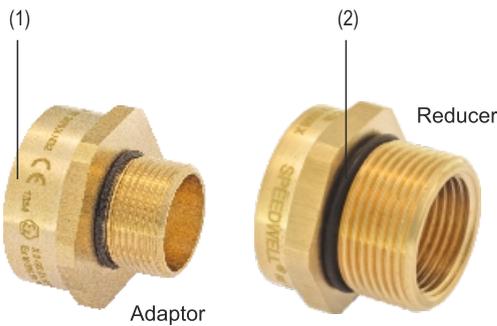
Adaptors & Reducers

Ex e / Ex d

Equipment or Protective System intended for use in Potentially explosive atmospheres directive 2014/34 EU

Adaptors and reducers is designed to provide options when there is conflict between the type or size of cable gland thread and cable entry hole in the equipment. Adaptors and reducers are available wide Male to Female thread connections and can be supplied with thread conversion between the forward and rear threads to either to enlarge or reduced size or a different thread type, e.g. Metric to NPT or NPT to Metric.

For use with Zone 1, Zone 2, Zone 21 and Zone 22 areas. Group IIA, IIB, IIC.



(1) Adaptor or Reducer
(2) Sealing Ring

Technical Details

Design Standard	EN 60079-0:2012 +A11 : 2013 EN 60079-1:2014, EN 60079-31:2014
Certification	II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67
Certificate Adaptor	TI25ATEX 10505 X
Certificate Reducer	TI25ATEX 10506 X
IP Rating	IP 67
Adaptor Marking	SPEEDWELL II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67 TI25ATEX 10505 X
Reducers Marking	SPEEDWELL II 2 GD Ex db IIC Gb / Ex e IIC Gb Ex tb IIIC Db IP67 TI25ATEX 10506 X
Materials	Brass : BS 2874 CZ121 /IS 319 gr.I Stainless Steel: ASTM A314 gr. 304/316 L Mild Steel
Threads	ISO Metric National pipe Thread (NPT) British Standard pipe (BSP), Imperial (ET)
Plating	Brass Finish / Nickel Finish /Chrome Finish
Accessories	Lock Nut, IP Washer

HOW TO GET 'A' ADAPTOR DIMENSIONS

To find shape value of adaptor cross the needed Male & Female threads from Selection Chart at Page 17.

THREAD SIZE	MET				
	FEAMEL	M12x1.5	M16x1.5	M20x1.5	M25x1.5
MALE					
M12x1.5			A02	A03	A04
M16x1.5	R01		A03	A04	
M20x1.5	R02	R02	A04	A05	
M25x1.5	R03	R03	R03	A05	
M32x1.5	R04	R04	R04		

A04

Find the shape value in dimension chart and get adaptor dimension at Page 16.

Sr	Code	CH	E	L	V
1	A01	20	22	15	15
2	A02	24	26.4	15	15
3	A03	26	28.6	15	15
4	A04	32	35	15	15
5	A05	40	44	15	15
6	A06	45	49.5	15	15
7	A07	55	60	15	15
8	A08	70	77	15	15
9	A09	85	93	15	20

A04

HOW TO GET 'R' REDUCER DIMENSIONS

To find shape value of adaptor cross the needed Male & Female threads from Selection Chart at Page 17.

THREAD SIZE	MET				
	FEAMEL	M12x1.5	M16x1.5	M20x1.5	M25x1.5
MALE					
M12x1.5			A02	A03	A04
M16x1.5	R01		A03	A04	
M20x1.5	R02	R02	A04	A05	
M25x1.5	R03	R03	R03	A05	
M32x1.5	R04	R04	R04		

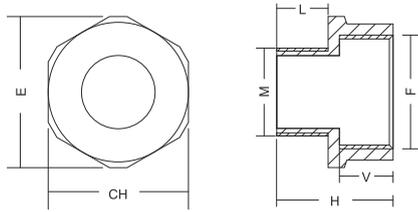
R03

Find the shape value in dimension chart and get adaptor dimension at Page 16.

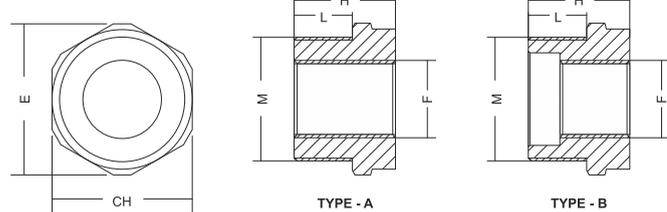
Sr	Code	CH	E	L	H
1	R01	20	22	15	26
2	R02	24	26	15	26
3	R03	30	33	15	26
4	R04	36	39	15	26
5	R05	45	49	15	26
6	R06	55	60	15	26
7	R07	69	75	15	26
8	R08	80	88	20	34
9	R09	95	105	20	34

R03

SHAPE 'A' DIMENSIONS



SHAPE 'R' DIMENSIONS



Dimension Chart:

Sr	Code	CH	E	L	V	H
1	A01	20	22	15	15	33
2	A02	24	26.4	15	15	33
3	A03	26	28.6	15	15	33
4	A04	32	35	15	15	33
5	A05	40	44	15	15	33
6	A06	45	49.5	15	15	33
7	A07	55	60	15	15	33
8	A08	70	77	15	15	33
9	A09	85	93	15	20	38
10	A10	100	110	15	20	38
11	A11	85	93	20	20	43
12	A12	100	110	20	20	43
13	A13	40	44	16	15	34
14	A14	45	49.5	16	15	34
15	A15	55	60	16	15	34
16	A19	45	49.5	17	15	35
17	A20	55	60	17	15	35
18	A21	70	77	17	15	35
19	A22	85	93	17	20	40
20	A24	70	77	18	15	36
21	A25	85	93	18	20	41
22	A26	100	110	18	20	41
23	A27	26	28.6	18	15	36
24	A28	32	35	18	15	36
25	A29	40	44	18	15	36
26	A30	45	49.5	22	15	36
27	A32	40	44	22	15	40
28	A33	45	49.5	22	15	40
29	A34	55	60	22	15	40
30	A35	70	77	24	15	40
31	A38	55	60	24	15	42
32	A39	70	77	24	15	42
33	A40	85	93	28	20	47
34	A42	85	93	28	20	51
35	A43	100	110	28	20	51
36	A44	40	44	23	15	41
37	A45	45	49.5	23	15	41
38	A46	55	60	23	15	41
39	A47	70	77	23	15	41
40	A50	40	44	15	16	34
41	A51	50	55	15	17	35
42	A52	60	60	15	17	35
43	A53	70	77	15	18	36
44	A54	95	104	15	20	38
45	A55	95	104	20	20	43
46	A57	50	55	14	17	36
47	A58	55	60	14	17	36
48	A59	70	77	14	18	37
49	A62	55	60	17	18	37
50	A63	70	77	17	18	38
51	A64	95	104	17	20	40
52	A66	95	104	18	20	41
53	A67	40	44	18	16	37
54	A68	50	55	18	17	38
55	A70	40	44	22	16	41
56	A71	50	55	22	17	42
57	A72	5	60	22	17	42
58	A73	70	77	22	18	43

Sr	Code	CH	E	L	V	H
59	A75	55	60	24	17	44
60	A76	70	77	24	18	45
61	A77	95	104	24	20	47
62	A78	95	104	28	20	51
63	A79	40	44	23	16	42
64	A80	50	55	23	17	43
65	A81	55	60	23	17	43
66	A82	100	110	23	18	44
67	A84	16	17.6	15	15	33
68	A85	27	29.7	15	15	33
69	A86	36	39.6	15	15	33
70	A87	60	66	15	20	38
71	A88	65	71	15	20	38
72	A89	30	33	15	15	33
73	A90	70	77	15	20	38
74	A98	65	71	20	20	43
75	A99	24	26.4	18	15	36
76	A111	26	28.6	15	18	36
77	A112	21	35	15	18	36
78	A113	40	44	15	22	40
79	A114	50	55	15	22	40
80	A115	55	60	15	24	42
81	A116	70	77	15	24	42
82	A117	80	88	15	28	46
83	A118	95	104	15	28	46
84	A119	80	88	20	28	51
85	A120	95	104	20	28	51
86	A123	55	60	16	24	43
87	A128	55	60	17	24	44
88	A129	70	77	17	24	44
89	A134	95	104	18	28	49
90	A137	32	35	18	18	39
91	A138	40	44	18	22	43
92	A139	50	55	18	22	43
93	A140	55	60	18	24	45
94	A142	50	55	22	24	47
95	A143	55	60	22	24	49
96	A144	70	77	22	24	49
97	A145	80	88	22	28	53
98	A148	70	77	24	24	51
99	A149	80	88	24	28	55
100	A150	95	104	24	28	55
101	A152	95	104	28	28	59
102	A154	50	55	23	22	48
103	A155	55	60	23	24	50
104	A156	70	77	23	24	50
105	A159	40	44	15	23	41
106	A160	50	55	152	23	41
107	A161	85	94	15	28	46
108	A162	85	94	20	28	51
109	A164	50	55	16	28	42
110	A168	85	94	18	28	49
111	A169	50	55	18	23	44
112	A171	50	55	22	23	48
113	A173	85	94	24	28	55
114	A176	50	55	23	23	49
115	A178	60	66	20	15	38
116	A179	70	77	20	15	38

Sr	Code	CH	E	L	H
1	R01	20	22	15	26
2	R02	24	26	15	26
3	R03	30	33	15	26
4	R04	36	39	15	26
5	R05	45	49	15	26
6	R06	55	60	15	29
7	R07	69	75	15	29
8	R08	80	88	20	34
9	R09	95	105	20	34
10	R10	26	28.6	15	26
11	R11	36	39.6	16	27
12	R12	45	49.5	17	28
13	R13	50	55	17	31
14	R14	69	74	18	32
15	R15	98	105	20	34
16	R16	32	35	15	26
17	R17	40	44	15	26
18	R18	50	55	15	29
19	R19	60	66	20	34
20	R20	65	71	20	34
21	R21	24	26.4	18	29
22	R22	27	29.7	18	29
23	R23	36	39.6	22	33
24	R24	45	49.5	22	33
25	R25	50	55	24	38
26	R26	69	75	24	38
27	R27	80	88	28	42
28	R28	98	105	28	42
29	R29	36	39.6	23	34
30	R30	45	49.5	23	34
31	R31	80	88	28	42



The image shows a close-up of several industrial cable glands installed in a white metal control cabinet. The glands are made of metal and have a hexagonal base. They are used to seal the entry points of cables into the cabinet to protect against dust and moisture. The background is a solid blue color with a white geometric shape that frames the text.

INDUSTRIAL CABLE GLANDS

GLAND SELECTION CHART



CABLE GLAND KITS

CABLE SIZE CONDUCTOR	NUMBER OF CORES														
	Nom. Area mm ²	Neutral	1	2	3	3-1/2	4	5	7	10	12	19	27	37	48
1.5	-	-	16	16	-	20S	20S	20S	20	20	25S	25	32	32	
2.5	-	-	20S	20S	-	20S	20	20	25S	25S	25	32	32	40	
4	-	-	20S	20	-	20	20S	20S	25	32	32	40			
6	-	-	20	20	-	20									
10	-	-	25S	20S	-	25S									
16	-	-	20	20S	-	25									
25	16	-	25S	25	32	32									
35	16	-	25	32	32	32									
50	25	25S	32	32	40	40									
70	35	25S	32	40	40	40									
95	50	25	40	40	50S	50S									
120	70	32	40	50S	50	50									
150	70	32	50S	50	50	63S									
185	95	32	50	50	63S	63									
240	120	40	50	63S	63	75S									
300	150	40	63S	63	75S	75									
300	185	-	-	-	75	-									
400	185	50S	63	75S	90S	90S									
500	-	50S	-	-	-	-									
800	-	63S	-	-	-	-									
1000	-	63	-	-	-	-									

GLANDS MANUFACTURED TO
BS6121:PT.1 : 1989
AND TESTED WITH IEC 62444:2010
FOR USE WITH
PVC,SWA,PVC 600/1000V CABLES
TO BS 6346 : 1989

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

APPLICATION:

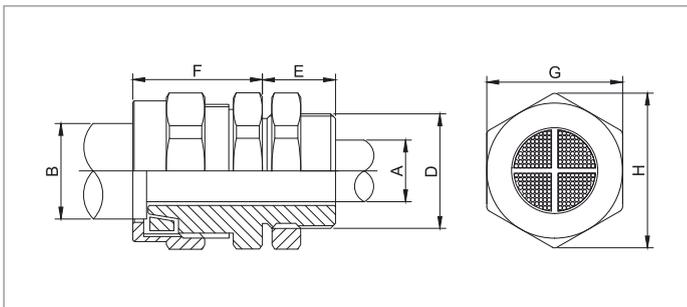
- * BW - General purpose indoor application.
- * CW, A2, E1W - indoor and outdoor application.
- * PG, TRS, Alco, Marine - Specific indoor Applications.

ENTRY THREAD:

Normally glands have isometric entry thread forms.
Metric threads 1.5 mm pitch are standard upto 75 mm.

CONDITION OF USE	CABLE GLAND SECTION GUIDELINES			
	CABLE TYPE			
	SINGLE WIRE ARMOUR			UNARMORED
	NO SEAL	OUTER SEAL	INNER & OUTER SEAL	SEAL
Clear & Dry	BW	CW	E1W	A2
External Moisture	-	CW	E1W	A2
Internal Moisture	-	-	E1W	A2
Dust & Oil	-	CW	E1W	A2

BW INDUSTRIAL CABLE GLAND



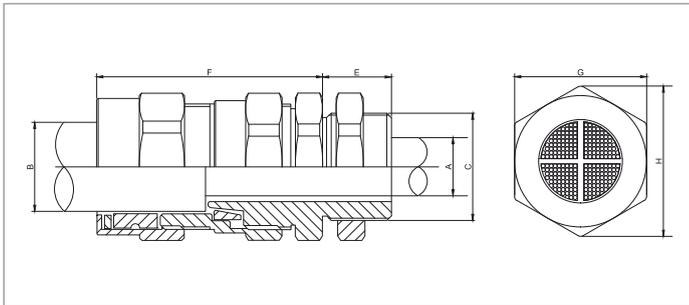
Technical Details

Design Specification	BS EN 6121:Part-1, IEC 62444:2010, BS EN 62444:2010
Gland Sizes	16 mm - 90 mm
Application	Suitable for Dry Indoor. Provides mechanical cable retention and electrical continuity via armour wire termination.
Ingress Protection	IP3X
Gland Material	Brass (CuZn 39Pb3/IS 319)
Sealing Type	No sealing
Finish	Natural Brass or Nickel Plated
Cable Types	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
Accessories	Lock Nut, Earth Tag & Shrouds

Product Description:

Part No.	Cable Gland Type	Cable Under Armour/Bedding Dia. (A) Max.dia. (mm) Cone ID	Max Cable Overall Diameter Max Dia (mm) Entry Nut ID	Gland Dimensions				
				ISO Entry Thread		Approx Length from Shoulder (F)	Hexagon Size	
				ISO Entry Thread Dia. (D)	ISO Entry Thread Length (E)		Across Flat (G mm)	Across Corner (H mm)
BCGB416SS	BW-16S	8.00	12.00	16.00	10.00	23.00	20.00	23.00
BCGB416LS	BW-16L	8.60	13.50	16.00	10.00	23.00	20.00	23.00
BCGB420SS	BW-20S	12.60	16.80	20.00	10.00	23.00	22.00	24.00
BCGB420LS	BW-20L	14.50	21.00	20.00	10.00	30.00	25.00	28.00
BCGB425SS	BW-25S	19.50	25.00	25.00	10.00	30.00	31.00	34.00
BCGB425LS	BW-25L	20.50	26.50	25.00	10.00	32.00	32.00	36.00
BCGB432SS	BW-32S	22.00	29.40	32.00	10.00	35.00	35.00	40.00
BCGB432LS	BW-32L	26.50	33.00	32.00	10.00	36.00	40.00	44.00
BCGB440SS	BW-40S	30.00	38.00	40.00	10.00	36.00	46.00	51.00
BCGB440LS	BW-40L	33.00	41.80	40.00	15.00	39.00	49.00	55.00
BCGB450SS	BW-50S	40.50	49.00	50.00	15.00	40.00	57.00	64.00
BCGB450LS	BW-50L	44.10	54.00	50.00	15.00	45.00	62.00	69.00
BCGB463SS	BW-63S	51.00	61.00	63.00	15.00	45.00	69.00	78.00
BCGB463LS	BW-63L	56.20	65.50	63.00	15.00	50.00	75.00	84.00
BCGB475SS	BW-75S	62.00	72.00	75.00	15.00	50.00	82.00	93.00
BCGB475LS	BW-75L	68.00	77.50	75.00	15.00	50.00	88.00	99.00
BCGB490SS	BW-90S	78.00	87.00	90.00	20.00	55.00	100.00	112.00
BCGB490LS	BW-90L	78.50	88.00	90.00	20.00	55.00	112.00	120.00

CW INDUSTRIAL CABLE GLAND



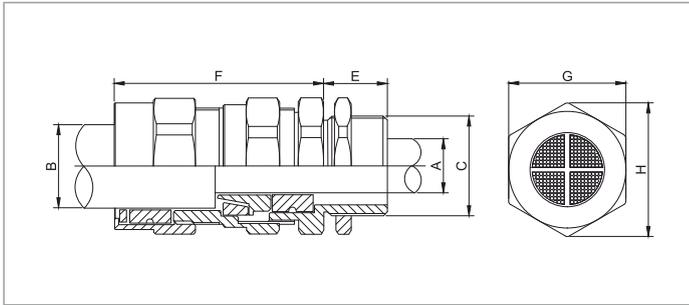
Technical Details

Design Specification	BS EN 6121:Part-1, IEC 62444:2010, BS EN 62444:2010	
Gland Sizes	16mm - 90 mm	
Application	Suitable for Indoor & Outdoor. Provides seal on the outer sheath. The cable gland also provides mechanical cable retention and electrical continuity via armour wire termination.	
Ingress Protection	IP66	
Gland Material	Brass (CuZn 39Pb3/IS 319), Aluminium	
Operating Temperature	Rubber washer	Temperature Range
	If Natural	-5°C to + 60°C
	If Neoprene	-5°C to + 90°C
	If Silicon	-50°C to + 160°C
Finish	Natural Brass or Nickel Plated	
Cable Types	Steel Wire Armour (SWA), Aluminium Wire Armour (AWA)	
Accessories	Lock Nut, Earth Tag & Shrouds	

Product Description:

Part No.	Cable Gland Type	Cable Under Armour /Building Diameter (A) Max.dia . (mm) Cone ID	Max Overall Cable Diameter (B)		Gland Dimensions				
			Min dia.(mm)	Max.dia. (mm) Cone ID	ISO Entry Thread		Approx Length from Shoulder (F)	Hexagon Size	
					ISO Entry Thread Diameter (D)	ISO Entry Thread Length (E)		Across Flat (G mm)	Across Corner (H mm)
BCGC416SS	CW-16S	9.00	4.00	7.70	16.00	10.00	40.00	20.50	22.70
BCGC416LS	CW-16L	9.00	6.00	12.00	16.00	10.00	40.00	20.50	22.70
BCGC420SS	CW-20S	12.50	9.50	14.50	20.00	10.00	47.00	22.20	24.20
BCGC420LS	CW-20L	14.20	14.00	18.50	20.00	10.00	47.00	26.20	29.00
BCGC425SS	CW-25S	18.50	18.40	23.20	25.00	10.00	50.00	31.00	34.50
BCGC425LS	CW-25L	20.40	19.00	25.50	25.00	10.00	50.00	36.00	39.20
BCGC432SS	CW-32S	24.00	25.00	29.00	32.00	10.00	55.00	39.00	43.50
BCGC432LS	CW-32L	27.20	25.50	32.80	32.00	10.00	55.00	41.00	46.00
BCGC440SS	CW-40S	32.00	28.50	35.50	40.00	15.00	60.00	49.50	55.50
BCGC440LS	CW-40L	33.50	32.00	39.00	40.00	15.00	60.00	49.50	54.50
BCGC450SS	CW-50S	40.10	39.00	46.70	50.00	15.00	65.00	57.00	63.50
BCGC450LS	CW-50L	44.50	43.50	51.00	50.00	15.00	65.00	62.00	69.60
BCGC463SS	CW-63S	50.00	47.50	55.60	63.00	15.00	70.00	73.00	81.00
BCGC463LS	CW-63L	56.30	52.00	62.20	63.00	15.00	70.00	78.00	86.00
BCGC475SS	CW-75S	63.10	57.50	70.70	75.00	15.00	75.00	84.50	95.50
BCGC475LS	CW-75L	68.00	63.00	75.50	75.00	15.00	75.00	91.00	102.20
BCGC490SS	CW-90S	77.30	75.50	85.00	90.00	20.00	90.00	100.00	110.00
BCGC490LS	CW-90L	78.70	80.00	88.70	90.00	20.00	90.00	103.00	114.00

E1W INDUSTRIAL CABLE GLAND



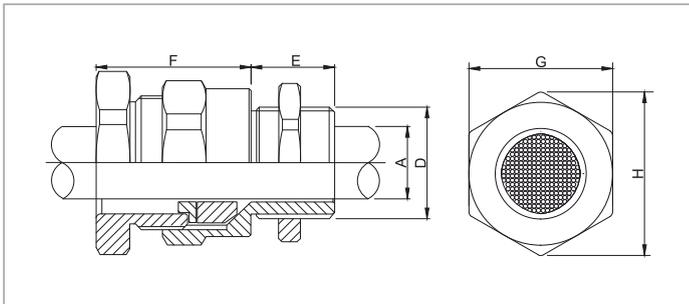
Technical Details

Design Specification	BS EN 6121:Part-1, IEC 62444:2010, BS EN 62444:2010	
Gland Sizes	16mm - 90 mm	
Application	Suitable for indoor and outdoor. Provides seal on the inner sheath and outer sheath. The cable provides mechanical cable retention and electrical continuity via armour wire termination.	
Ingress Protection	IP66	
Gland Material	Brass (CuZn 39Pb3/IS 319), Aluminium	
Operating Temperature	Rubber washer	Temperature Range
	If Natural	-5°C to + 60°C
	If Neoprene	-5°C to + 90°C
	If Silicon	-50°C to + 160°C
Finish	Natural Brass or Nickel Plated	
Cable Types	Steel Wire Armour (SWA), Aluminium Wire Armour (AWA)	
Accessories	Lock Nut, Earth Tag & Shrouds	

Product Description:

Part No.	Cable Gland Type	Cable Under Armour /Building Dia. (A)		Max Overall Cable Diameter (B)		Gland Dimensions				
		Min dia. (mm)	Max.dia. (mm) Cone ID	Min dia. (mm)	Max.dia. (mm) Cone ID	ISO Entry Thread		Approx Length from Shoulder (F)	Hexagon Size	
						ISO Entry Thread Dia. (D)	ISO Entry Thread Length (E)		Across Flat (G mm)	Across Corner (H mm)
BCGE116SS	E1W-16S	6.00	8.00	8.00	13.30	16.00	10.00	40.00	20.50	22.70
BCGE116LS	E1W-16L	6.30	8.60	8.00	13.50	16.00	10.00	40.00	20.50	22.70
BCGE120SS	E1W-20S	8.00	10.50	8.30	15.00	20.00	15.00	45.00	22.00	24.00
BCGE120LS	E1W-20L	11.20	14.20	14.50	19.50	20.00	15.00	45.00	27.00	30.00
BCGE125SS	E1W-25S	13.20	18.50	18.00	21.50	25.00	15.00	50.00	31.00	35.00
BCGE125LS	E1W-25L	14.50	20.40	18.80	25.50	25.00	15.00	50.00	35.00	39.00
BCGE132SS	E1W-32S	19.00	26.50	23.00	31.30	32.00	15.00	55.00	44.00	48.00
BCGE132LS	E1W-32L	19.00	27.20	23.00	31.30	32.00	15.00	55.00	44.00	48.00
BCGE140SS	E1W-40S	25.00	32.00	31.50	40.10	40.00	15.00	60.00	51.50	57.50
BCGE140LS	E1W-40L	26.40	33.50	33.40	41.90	40.00	15.00	60.00	51.50	57.50
BCGE150SS	E1W-50S	26.00	40.10	37.80	47.40	50.00	15.00	65.00	59.00	65.00
BCGE150LS	E1W-50L	36.80	44.50	39.00	49.30	50.00	15.00	65.00	64.50	72.00
BCGE163SS	E1W-63S	45.50	50.00	49.30	58.00	63.00	18.00	70.00	70.00	77.00
BCGE163LS	E1W-63L	49.50	56.30	53.00	65.00	63.00	18.00	70.00	78.00	87.50
BCGE175SS	E1W-75S	56.10	63.10	61.50	68.60	75.00	20.00	76.00	84.00	92.50
BCGE175LS	E1W-75L	55.00	68.00	66.40	78.50	75.00	20.00	79.00	95.00	108.00
BCGE190SS	E1W-90S	61.00	70.20	85.00	90.00	90.00	20.00	95.00	100.00	110.00
BCGE190LS	E1W-90L	66.50	73.50	72.00	88.00	90.00	20.00	96.00	105.00	122.00

A1A2 INDUSTRIAL CABLE GLAND



Technical Details

Design Specification	BS EN 6121:Part-1, IEC 62444:2010, BS EN 62444:2010	
Gland Sizes	16 mm - 90 mm	
Application	Suitable for Indoor & Outdoor. Provides seal on cable outer sheath and mechanical cable retention.	
Ingress Protection	IP66	
Gland Material	Brass (CuZn 39Pb3/IS 319)	
Operating Temperature	Rubber washer	Temperature Range
	If Natural	-5°C to + 60°C
	If Neoprene	-5°C to + 90°C
	If Silicon	-10°C to + 175°C
Finish	Natural Brass or Nickel Plated	
Cable Types	Unarmoured	
Accessories	Lock Nut, Earth Tag & Shrouds, Serrated Washer ,Adaptor/Reducer.	

Product Description:

Part No.	Cable Gland Type	Max Overall Cable Diameter (B)		Gland Dimensions				
		Min dia. (mm)	Max.dia. (mm) Cone ID	ISO Entry Thread		Approx Length from Shoulder (F)	Hexagon Size	
				ISO Entry Thread Diameter (D)	ISO Entry Thread Length (E)		Across Flat (G mm)	Across Corner (H mm)
BCGA216SS	A1A2-16S	3.50	6.50	16.00	10.00	20.00	22.00	24.50
BCGA216LS	A1A2-16L	4.00	8.00	16.00	10.00	20.00	22.00	24.50
BCGA220SS	A1A2-20S	8.50	12.00	20.00	15.00	22.00	24.00	26.00
BCGA220LS	A1A2-20L	8.00	13.00	20.00	15.00	22.00	26.00	29.00
BCGA225SS	A1A2-25S	9.00	17.50	25.00	15.00	25.00	30.00	33.00
BCGA225LS	A1A2-25L	12.00	21.00	25.00	15.00	26.00	33.50	37.00
BCGA232SS	A1A2-32S	18.00	25.00	32.00	15.00	30.00	41.00	45.50
BCGA232LS	A1A2-32L	18.50	26.20	32.00	15.00	30.00	41.00	45.50
BCGA240SS	A1A2-40S	20.00	31.00	40.00	15.00	31.00	50.00	55.50
BCGA240LS	A1A2-40L	23.00	33.00	40.00	15.00	31.00	50.00	55.50
BCGA250SS	A1A2-50S	31.00	38.00	50.00	15.00	33.00	55.00	60.50
BCGA250LS	A1A2-50L	35.00	44.10	50.00	15.00	33.00	59.50	67.00
BCGA263SS	A1A2-63S	39.00	49.30	63.00	15.00	35.00	70.00	77.00
BCGA263LS	A1A2-63L	46.00	53.50	63.00	15.00	35.00	74.00	80.00
BCGA275SS	A1A2-75S	53.00	61.50	75.00	15.00	35.00	82.00	90.50
BCGA275LS	A1A2-75L	60.00	67.40	75.00	15.00	40.00	84.00	94.00
BCGA290SS	A1A2-90S	64.00	72.80	90.00	20.00	50.00	101.00	114.00
BCGA290LS	A1A2-90L	68.00	78.00	90.00	20.00	50.00	101.00	114.00

PG - METALLIC



Size	Cable Range	Cat#	Size	Cable Range	Cat#
PG7	3-6.5	BCGP7S	PG21	13-18	BCGP21S
PG9	4-8	BCGP9S	PG29	18-25	BCGP29S
PG11	5-10	BCGP11S	PG36	22-32	BCGP36S
PG13.5	6-12	BCGP13S	PG42	32-38	BCGP42S
PG16	10-14	BCGP16S	PG48	37-44	BCGP48S
PG19	12-15	BCGP19S	PG63	42-54	BCGP63S

Body - Brass or Nickel Plated
IP - 68

PG - NON METALLIC



Size	Cable Range	Cat#	Size	Cable Range	Cat#
PG7	3-6.5	NCGP7S	PG21	13-18	NCGP21S
PG9	4-8	NCGP9S	PG29	18-25	NCGP29S
PG11	5-10	NCGP11S	PG36	25-33	NCGP36S
PG13.5	6-12	NCGP13S	PG42	32-38	NCGP42S
PG16	10-14	NCGP16S	PG48	37-44	NCGP48S
PG19	10-14	NCGP19S	PG63	42-52	NCGP63S

Body - Nylon
IP - 68

MM - NON METALLIC



Size	Cable Range	Cat#	Size	Cable Range	Cat#
M-12	3-6.5	NCGM12S	M-36	18-25	NCGM36S
M-16	4-8	NCGM16S	M-40	22-32	NCGM40S
M-20	6-12	NCGM20S	M-50	32-38	NCGM50S
M-25	13-18	NCGM25S	M-63	37-44	NCGM63S
M-32	16-21	NCGM32S			

Body - Nylon
IP - 68

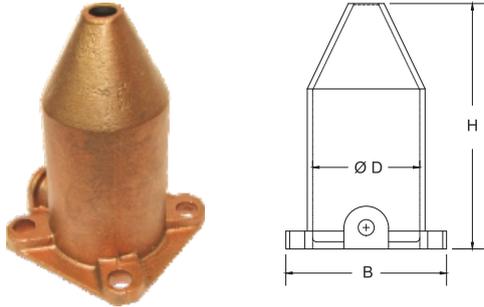
MM - METALLIC



Size	Cable Range	Cat#	Size	Cable Range	Cat#
M-12	3-6.5	BCGM12S	M-36	18-25	BCGM36S
M-16	4-8	BCGM16S	M-40	22-32	BCGM40S
M-20	6-12	BCGM20S	M-50	32-38	BCGM50S
M-25	13-18	BCGM25S	M-63	37-44	BCGM63S
M-32	16-21	BCGM32S			

Body - Brass or Nickel Plated
IP - 68

BRASS WIPING GLAND



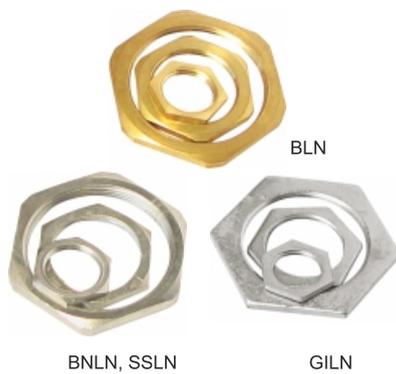
Dimensions in mm			Cat.#
Dia (D)	Height (H)	Base (B)	
60	135	90 x 90	WG60S
89	160	115 x 122	WG89S
109	190	Ø187	WG109RS
109	195	130 x 130	WG109S

BRASS EARTH TAG



Size	Brass Cat. #	Nickle Cat. #
M20	BET20S	BETN20S
M25	BET25S	BETN25S
M32	BET32S	BETN32S
M40	BET40S	BETN40S
M50	BET50S	BETN50S
M63	BET63S	BETN63S
M75	BET75S	BETN75S
M90	BET90S	BETN90S

LOCK NUT



Size	Brass Cat. #	Nickle Cat. #	SS Cat. #	GI Cat. #
16 mm	BLN16S	BNLN16S	SSLN16S	GILN16S
20 mm	BLN20S	BNLN20S	SSLN20S	GILN20S
25 mm	BLN25S	BNLN25S	SSLN25S	GILN25S
32 mm	BLN32S	BNLN32S	SSLN32S	GILN32S
40 mm	BLN40S	BNLN40S	SSLN40S	GILN40S
50 mm	BLN50S	BNLN50S	SSLN50S	GILN50S
63 mm	BLN63S	BNLN63S	SSLN63S	GILN63S
75 mm	BLN75S	BNLN75S	SSLN75S	GILN75S
90 mm	BLN90S	BNLN90S	SSLN90S	GILN90S
3/4"	BLN34S	BNLN34S	SSLN34S	GILN34S
1"	BLN01S	BNLN01S	SSLN01S	GILN01S
1.1/4"	BLN114S	BNLN114S	SSLN114S	GILN114S
1.1/2"	BLN112S	BNLN112S	SSLN112S	GILN112S
2"	BLN02S	BNLN02S	SSLN02S	GILN02S
2.1/2"	BLN212S	BNLN212S	SSLN212S	GILN212S
3"	BLN03S	BNLN03S	SSLN03S	GILN03S

PVC SHROUD



Gland Size	Cat. # BW	Cat. # CW	Cat. # A1A2	Cat. # E1W
20S	PSB20SS	PSC20SS	PSA220SS	PSE120SS
25S	PSB25SS	PSC25SS	PSA225SS	PSE125SS
32S	PSB32SS	PSC32SS	PSA232SS	PSE132SS
40S	PSB40SS	PSC40SS	PSA240SS	PSE140SS
50S	PSB50SS	PSC50SS	PSA250SS	PSE150SS
63S	PSB63SS	PSC63SS	PSA263SS	PSE163SS
75S	PSB75SS	PSC75SS	PSA275SS	PSE175SS
90S	PSB90SS	PSC90SS	PSA290SS	PSE190SS

Gland Size	Cat. # BW	Cat. # CW	Cat. # A1A2	Cat. # E1W
20S	PSB20LS	PSC20LS	PSA220LS	PSE120LS
25S	PSB25LS	PSC25LS	PSA225LS	PSE125LS
32S	PSB32LS	PSC32LS	PSA232LS	PSE132LS
40S	PSB40LS	PSC40LS	PSA240LS	PSE140LS
50S	PSB50LS	PSC50LS	PSA250LS	PSE150LS
63S	PSB63LS	PSC63LS	PSA263LS	PSE163LS
75S	PSB75LS	PSC75LS	PSA275LS	PSE175LS
90S	PSB90LS	PSC90LS	PSA290LS	PSE190LS

LSF Shroud

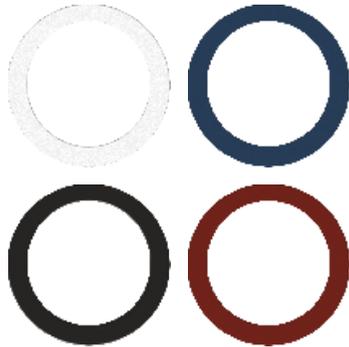


Gland Size	Cat. # BW	Cat. # CW	Cat. # A1A2	Cat. # E1W
20S	LSB20SS	LSC20SS	LSA220SS	LSE120SS
25S	LSB25SS	LSC25SS	LSA225SS	LSE125SS
32S	LSB32SS	LSC32SS	LSA232SS	LSE132SS
40S	LSB40SS	LSC40SS	LSA240SS	LSE140SS
50S	LSB50SS	LSC50SS	LSA250SS	LSE150SS
63S	LSB63SS	LSC63SS	LSA263SS	LSE163SS
75S	LSB75SS	LSC75SS	LSA275SS	LSE175SS
90S	LSB90SS	LSC90SS	LSA290SS	LSE190SS

Gland Size	Cat. # BW	Cat. # CW	Cat. # A1A2	Cat. # E1W
20S	LSB20LS	LSC20LS	LSA220LS	LSE120LS
25S	LSB25LS	LSC25LS	LSA225LS	LSE125LS
32S	LSB32LS	LSC32LS	LSA232LS	LSE132LS
40S	LSB40LS	LSC40LS	LSA240LS	LSE140LS
50S	LSB50LS	LSC50LS	LSA250LS	LSE150LS
63S	LSB63LS	LSC63LS	LSA263LS	LSE163LS
75S	LSB75LS	LSC75LS	LSA275LS	LSE175LS
90S	LSB90LS	LSC90LS	LSA290LS	LSE190LS

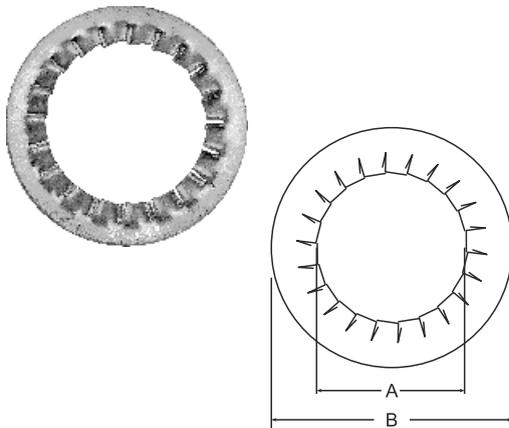
Colors with order.

IP WASHERS



Size	Outer Dia MM	Cat. # (Nylon)	Cat. # (Fiber)	Cat. # (EPDM)	Cat. #
M12	22.0	IPWM12NS	IPWM12FS	IPWM12ES	IPWM12SS
M16	25.4	IPWM16NS	IPWM16FS	IPWM62ES	IPWM16SS
M20	28.6	IPWM20NS	IPWM20FS	IPWM20ES	IPWM20SS
M25	35.0	IPWM25NS	IPWM25FS	IPWM25ES	IPWM25SS
M32	44.5	IPWM32NS	IPWM32FS	IPWM32ES	IPWM32SS
M40	50.8	IPWM40NS	IPWM40FS	IPWM40ES	IPWM40SS
M50	65.0	IPWM50NS	IPWM50FS	IPWM50ES	IPWM50SS
M63	76.2	IPWM63NS	IPWM63FS	IPWM63ES	IPWM63SS
M75	95.0	IPWM75NS	IPWM75FS	IPWM75ES	IPWM75SS
M90	110.0	IPWM90NS	IPWM90FS	IPWM90ES	IPWM90SS

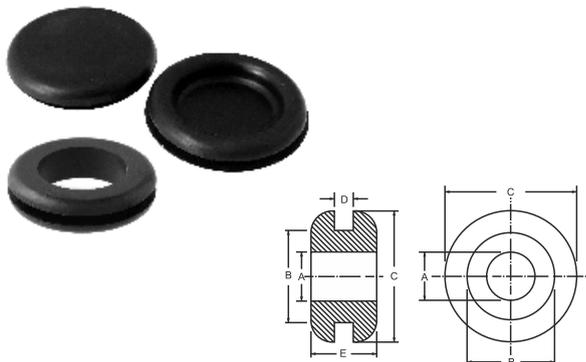
SERRATED WASHERS



All dimensions are in mm

Size (A)	External Diameter (B)	Minimum Thickness	Cat. # (GI)	Cat. # (SS)
M 16	25.4	3.3	SWM16GS	SWM16SS
M 20	32.0	3.7	SWM20GS	SWM20SS
M 25	40.0	3.7	SWM25GS	SWM25SS
M 32	44.0	3.7	SWM32GS	SWM32SS
M 40	59.0	3.7	SWM40GS	SWM40SS
M 50	80.0	3.7	SWM50GS	SWM50SS
M 63	100.0	4.5	SWM63GS	SWM63SS
M 75	112.0	5.0	SWM75GS	SWM75SS
M 90	120.0	5.0	SWM90GS	SWM90SS
M 100	150.0	6.3	SWM100GS	SWM100SS

GROMMETS



Cable Size (mm ²)	Dimension in mm					CAT #
	A	B	C	D	E	
16	14	16	21	2.5	9.5	GM16S
20	15	20	26	2	9	GM20S
25	20	25	33	2.5	11	GM25S
32	24	32	40	2.5	11	GM32S
40	32	32	47	3	10	GM40S
50	42	50	61	3	14	GM50S
60	50	60	66	3	11	GM60S
66	50	60	66	3	11	GM66S
70	60	70	80	3	10.5	GM70S
80	70	80	90	2.5	10	GM80S
90	80	90	100	3	13	GM90S
100	90	100	110	4	15	GM100S

BRASS ADAPTORS & REDUCERS



MFA



MFR

Size M/F	Cat. #	Size M/F	Cat. #
20 x 25 mm	MFA2025S	¾" x 1"	MFA341S
20 x 32 mm	MFA2032S	¾" x 1.¼"	MFA34114S
25 x 32 mm	MFA2532S	1" x 1.¼"	MFA1114S
25 x 40 mm	MFA2540S	1.¼" x 1.½"	MFA114112S
32 x 40 mm	MFA3240S	1.½" x 2"	MFA1122S
40 x 50 mm	MFA4050S		

Replace suffix 'S' with 'NS' in Cat.# to order Nickel Plated item

Size M/F	Cat. #	Size M/F	Cat. #
20 x 16 mm	MFR2016S	63 x 40 mm	MFR6340S
25 x 20 mm	MFR2520S	63 x 50 mm	MFR6350S
32 x 20mm	MFR3220S	1" x ¾"	MFR134S
32 x 25 mm	MFR3225S	1.¼" x ¾"	MFR11434S
40 x 25 mm	MFR4025S	1.¼" x 1"	MFR1141S
40 x 32 mm	MFR4032S	1.½" x 1.¼"	MFR112114S
50 x 32 mm	MFR5032S	2" x 1.½"	MFR2112S
50 x 40 mm	MFR5040S		

Replace suffix 'S' with 'NS' in Cat.# to order Nickel Plated item

BRASS STOPPER PLUG



BEP



BSPM/BSPG

Size mm	Cat. #	Size	Cat. #
16	BEP16S	¾"	BEP34S
20	BEP20S	1"	BEP01S
25	BEP25S	1.¼"	BEP114S
32	BEP32S	1.½"	BEP112S
40	BEP40S	2"	BEP02S
50	BEP50S		

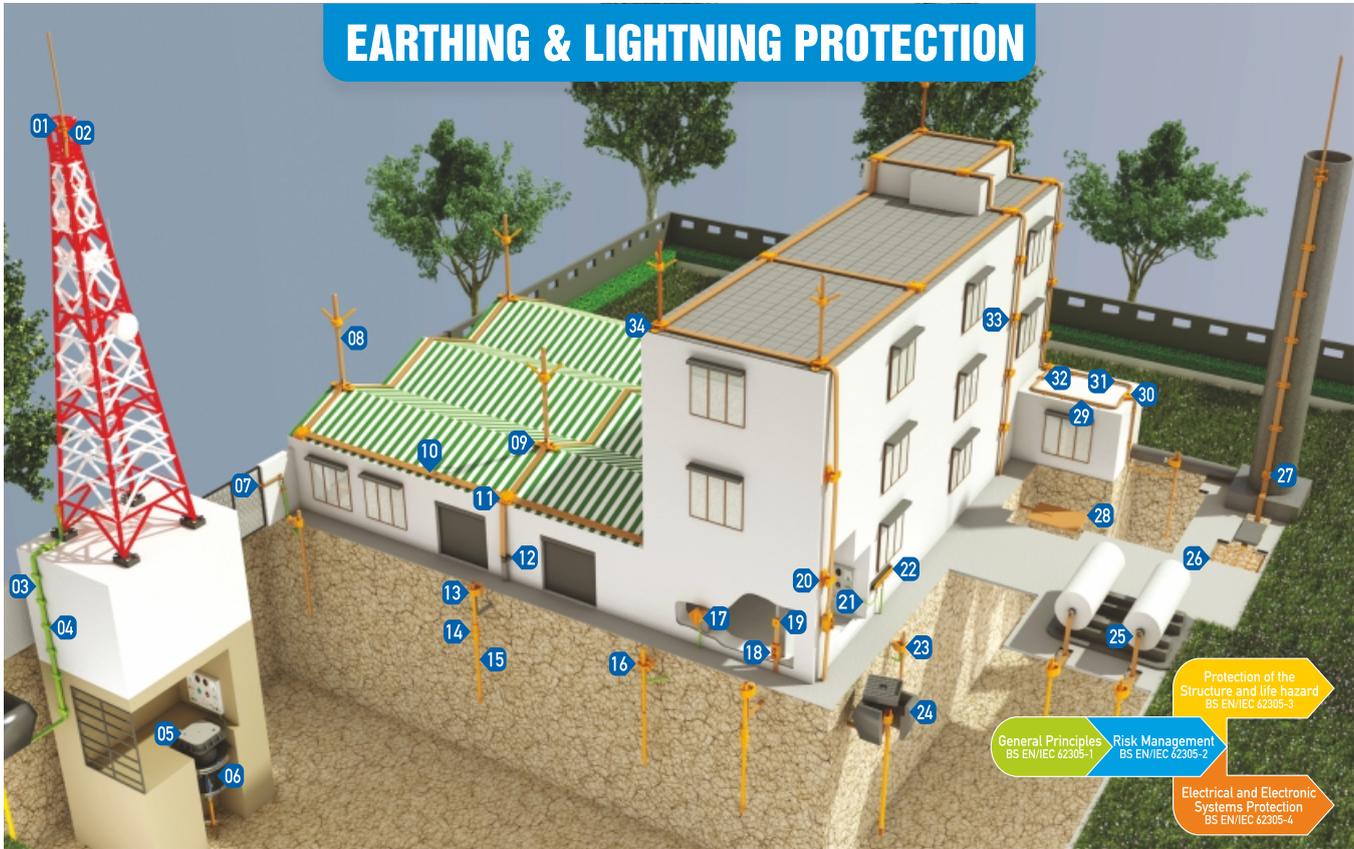
Replace suffix 'S' with 'NS' in Cat.# to order Nickel Plated item

All the dimensions are in mm.		Cat. #
Thread Size(M)	Thread Lth	
M 12	7.5	BSPM12S
M 16	8.0	BSPM16S
M 20	9.5	BSPM20S
M 25	11.0	BSPM25S
M 32	12.0	BSPM32S
M 40	13.0	BSPM40S
M 50	15.0	BSPM50S
M 63	15.0	BSPM63S

All the dimensions are in mm.		Cat. #
Thread Size(M)	Thread Lth	
PG 7	8.0	BSPG7S
PG 9	9.0	BSPG9S
PG 11	9.0	BSPG11S
PG 13	9.5	BSPG13S
PG 16	9.5	BSPG16S
PG 21	11.0	BSPG21S
PG 29	12.0	BSPG29S
PG 36	15.0	BSPG36S
PG 42	16.0	BSPG42S
PG 48	16.0	BSPG48S

Replace suffix 'S' with 'NS' in Cat.# to order Nickel Plated item

EARTHING & LIGHTNING PROTECTION



<p>01</p> <p>ROD BRACKETS-SIDE MOUNTING BRACKETS</p>	<p>02</p> <p>AIR ROD TO TAPE COUPLING</p> <p>AIR ROD TO TAPE COUPLING</p>	<p>03</p> <p>PVC COVERED COPPER TAPE</p> <p>Yellow&Green Stone White Brown Green</p>	<p>04</p> <p>NON METALLIC DC TAPE CLIP</p>	<p>05</p> <p>EARTH HOUSING HEAVY DUTY</p>	<p>06</p> <p>EARTH ROD SEAL</p>	<p>07</p> <p>FLEXIBLE BRAID BOND</p>
<p>08</p> <p>AIR ROD SET</p>	<p>09</p> <p>RIDGE SADDLE</p>	<p>10</p> <p>BARE COPPER TAPE</p>	<p>11</p> <p>SQUARE TAPE CLAMP</p>	<p>12</p> <p>BI-METALLIC CONNECTOR TAPE TO TAPE</p> <p>SS TL TT</p>	<p>13</p> <p>ROD TO TAPE CLAMP-TYPE 'A'</p>	<p>14</p> <p>COUPLER HEAVY DUTY</p>
<p>15</p> <p>EARTH ROD</p>	<p>16</p> <p>ROD TO CABLE CLAMP TYPE 'GUV'</p>	<p>17</p> <p>EARTH BONDING POINT</p>	<p>18</p> <p>OBLONG TEST OR JUNCTION CLAMP</p>	<p>19</p> <p>B BOND</p>	<p>20</p> <p>BACK PLATE HOLD FAST STEM</p>	<p>21</p> <p>BARE COPPER STRANDED CONDUCTORS</p> <p>PVC COVERED COPPER CONDUCTORS</p>
<p>22</p> <p>EARTH BAR AND DISCONNECTING LINKS</p>	<p>23</p> <p>ROD TO CABLE CLAMP - TYPE 'G'</p>	<p>24</p> <p>CONCRETE INSPECTION PIT</p>	<p>25</p> <p>EARTH BOSS</p>	<p>26</p> <p>EARTH LATTICE</p>	<p>27</p> <p>PLATE TYPE TEST CLAMP</p>	<p>28</p> <p>EARTH PLATE</p>
<p>29</p> <p>ONE HOLE CLIP</p> <p>TAPE CLIP</p>	<p>30</p> <p>TEE CLAMP</p>	<p>31</p> <p>SOLID CIRCULAR CONDUCTORS</p>	<p>32</p> <p>HEAVY DUTY CAST CABLE SADDLE</p>	<p>33</p> <p>DC TAPE CLIP</p>	<p>34</p> <p>AIR TERMINAL BASE</p>	

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