



Accessories

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Accessories

Glands

Cable glands are designed to provide some or all of the following functions in a cabling system:

- Mechanical connection: Locate and anchor cable
- Earth continuity: Armour termination
- Ingress Protection: Protect against dust and liquids
- Hazardous area: Flameproof protection

The design of cable glands are covered by BS6121, which covers size, finish, materials, performance, etc. The gland designs are basically a combination of compatibility with cable and installation requirements.

Gland Types

There are several distinct gland types covered in BS6121 Part 1;

A Type

B Type

C Type

D1 Type

E1 Type

D2 Type

E2 Type

Suffixes are used to identify the type of armour on a cable:

W = single wire armour

X = wire braid armour

Y = aluminium wire armour

Z = steel tape armoured

Hence, CW would be a single wire armour, whereas CX would be for a braid armour. The only difference is in the armour lock which caters for the physical size of the armour.

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19**Gland Type**

A1/A2

Application/Use

Indoor/outdoor brass gland for use with unarmoured cable.

BW

Indoor, low-cost, two-part brass gland for use with single wire armoured cable.

CW

Indoor/outdoor brass glands for use with single wire armoured cable. Provides seal on outer sheath of cable and separate armour locking ring. N.B. Aluminium gland available for aluminium wire armoured cable.

CX

Indoor/outdoor brass gland for use with braid armoured cables. Provides seal on outer sheath of cable and separate armour locking ring.

E1W

Indoor/outdoor brass gland for use with single wire armour cable. Provides seal on inner and outer sheaths of cable, and has separate armour locking ring.

LSF Glands

BW

Indoor, low cost, two-part brass gland for use with LSF single wire armoured cables.

CW

Indoor/outdoor brass gland for use with LSF single wire armoured cables. Provides LSF seal onto outer sheath of cable and separate armour locking ring.

Glands for Hazardous Areas

A2F

Indoor/outdoor brass gland for use with unarmoured cables. For use with flameproof or increased safety equipment (E.Exd or E.Exe)

E1WF

Indoor/outdoor brass gland for use with single wire armoured cable. Provides seal on inner and outer sheaths of cable, and has separate locking ring. For use with flameproof or increased safety equipment (E.Exd or E.Exe)

E1XF

Indoor/outdoor brass gland for use with braid armoured cable. Provides seal on inner and outer sheaths of cable, and has separate armour locking ring. For use with flameproof or increased safety equipment (E.Exd or E.Exe).

E2WF

Indoor/outdoor brass gland for use with single wire armoured and lead sheathed cables (e.g. EEMUA types, BS5308 PT1/Type 3). Provides seal onto outer sheath of cable. Inner seal grips and provides earth continuity to lead sheath. Design has separate armour locking ring. For use with flameproof or increased safety equipment (E.Exd or E.Exe).

BARR-X

Indoor/outdoor brass barrier gland for use with a braid armoured cable. Provides seal on outer sheath of cable, and solid setting compound squeezed into the interstices of cable when installed to prevent escape of gases through centre of cable. For use with explosion proof equipment.

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Accessories

I.P Ratings for Cable Glands

I.P. (Index of Protection) Ratings detail the degree of protection against solid bodies and liquids, and is tested against EN 60529.

Generally any seal has a rating of IP66.

However, since they are tested in isolation, when they are in conjunction with a piece of equipment this needs to be taken into consideration.

Generally the following can be taken:-

1. Gland used in Plain Entry with Backnut - IP54.
2. Gland used in Plain Entry with sealing washer between gland and equipment interface - IP66.
3. Gland used in Tapped Entry - IP65.
4. These can be uprated by the use of Sealing washers and Thread Sealants.
5. Special designs of Gland are available which can achieve an IP Rating of IP68. (N.B. Interface with equipment then becomes critical.)

Degree of Protection EN 60529 I.P. Ratings

First Digit	Protection (Against Solid Bodies)
0	No protection
1	Protected against solid bodies larger than 50mm, e.g., accidental contact with hand.
2	Protected against solid bodies larger than 12mm, e.g., finger.
3	Protected against solid bodies larger than 2.5mm, e.g., tools and wires.
4	Protected against solid bodies larger than 1.0mm, e.g., fine tools and small wires.
5	Protected against dust (no harmful deposits).
6	Completely protected against dust.

Second Digit	Protection (Against Liquids)
0	No protection.
1	Protected against vertically falling drops of water (condensation).
2	Protected against drops of water falling at up to 15° from the vertical.
3	Protected against rain falling at 60° from vertical.
4	Protected against splashes of water from all directions.
5	Protected against jets of water from all directions.
6	Protected against jets of water of similar force to heavy seas.
7	Protected against the effects of temporary immersion.
8	Protected against prolonged effects of immersion under pressure.

A1/A2 Brass Gland with Outer Seal



- To BS6121 : Part 1.
- Suitable for unarmoured, plastic or rubber sheathed cables.
- Suitable for most indoor and outdoor applications.
- Seal rated to IP66.

Cable & Gland Details

Anixter Number	Gland Manu	Gland Size	Cable Dimensions Accommodated (mm)	
			Overall Diameter	Minimum
E1AW-A1/A2-16/20C	CMP	16/20	3.1	8.7
E1AW-A1/A2-20SS	Prysmian	20SS	3.5	8.5
E1AW-A1/A2-20SC	CMP	20S	6.1	11.7
E1AW-A1/A2-20S	Prysmian	20S	8.0	11.6
E1AW-A1/A2-20C	CMP	20	6.5	14.0
E1AW-A1/A2-20	Prysmian	20	11.0	13.5
E1AW-A1/A2-25C	CMP	25	11.1	20.0
E1AW-A1/A2-25	Prysmian	25	13.0	19.5
E1AW-A1/A2-32C	CMP	32	17.0	26.3
E1AW-A1/A2-32	Prysmian	32	19.0	25.5
E1AW-A1/A2-40C	CMP	40	23.5	32.2
E1AW-A1/A2-40	Prysmian	40	25.0	32.0
E1AW-A1/A2-50SC	CMP	50S	31.0	38.2
E1AW-A1/A2-50S	Prysmian	50S	31.5	37.0
E1AW-A1/A2-50C	CMP	50	35.6	44.1
E1AW-A1/A2-50	Prysmian	50	36.5	43.0
E1AW-A1/A2-63SC	CMP	63S	41.5	50.0
E1AW-A1/A2-63S	Prysmian	63S	42.5	50.0

Glands are supplied in kit form, complete with locknuts and shrouds.

Up to size 25:- 2 per kit.

Size 32 and above:- 1 per kit, with exception of CMP size 32 which contains 2 per kit.

CX Brass Gland with Outer Seal



- To BS6121 : Part 1.
- Suitable for wire braid armoured, plastic or rubber sheathed cables.
- Outer seal grips sheath of cable.
- Seal rated to IP66.
- Weatherproof and water proof.
- Seal rated to IP66.
- Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface.

Cable & Gland Details

Anixter Number	Gland Manu	Gland Size	Cable Dimensions Accommodated (mm)			
			Under Armour		Overall	
			Minimum	Maximum	Minimum	Maximum
E1AH-CX-16/20C	CMP	16/20	-	8.7	6.1	11.5
E1AH-CX-20SS	Prysmian	20SS	-	8.6	8.0	13.2
E1AH-CX-20SC	CMP	20S	-	11.7	9.5	15.9
E1AH-CX-20S	Prysmian	20S	-	11.6	8.0	15.8
E1AH-CX-20C	CMP	20	-	14.0	12.5	20.9
E1AH-CX-20	Prysmian	20	-	13.9	12.9	20.8
E1AH-CX-25C	CMP	25	-	20.0	18.2	26.2
E1AH-CX-25	Prysmian	25	-	19.9	17.0	27.2
E1AH-CX-32C	CMP	32	-	26.3	23.7	33.9
E1AH-CX-32	Prysmian	32	-	26.2	23.5	33.5
E1AH-CX-40C	CMP	40	-	32.2	27.9	40.4
E1AH-CX-40	Prysmian	40	-	32.1	29.0	39.9

Glands are supplied in kit form, complete with locknuts, earhtags and shrouds.

Up to size 25:- 2 per kit.

Size 32 and above:- 1 per kit, with exception of CMP size 32 which contains 2 per kit.

Dome Top Gland with Outer Seal



- Suitable for unarmoured, plastic or rubber sheathed cables.
- Polyamide 6 nylon gland with neoprene seal.
- Compact “skin-top” design, halogen free.
- Quick and easy assembly.
- Seal rated at IP68.
- Temperature range -30°C to $+80^{\circ}\text{C}$.
- Available in grey, red, white colours (black available if required, replace G on part no. with B e.g. DTG16B).
- ISO Metric thread.

Cable Gland Details

Anixter Number	Gland Size	Gland Colour	Cable Dimensions Accommodated (mm)	
			Minimum	Maximum
DTG16G	16	Grey	3.0	7.0
DTG20SG	20S	Grey	6.0	12.0
DTG20LG	20L	Grey	10.0	14.0
DTG25G	25	Grey	13.0	18.0
DTG32G	32	Grey	17.0	25.0
DTG40G	40	Grey	16.0	28.0
DTG50G	50	Grey	21.0	35.0
DTG63G	63	Grey	34.0	48.0
DTG20SR	20S	Red	6.0	12.0
DTG20LR	20L	Red	10.0	14.0
DTG25R	25	Red	13.0	18.0
DTG20SW	20S	White	6.0	12.0
DTG20LW	20L	White	10.0	14.0
DTG25W	25	White	13.0	18.0
Locknuts				
ML16G	16	Grey	-	-
ML20G	20	Grey	-	-
ML25G	25	Grey	-	-
ML32G	32	Grey	-	-
ML40G	40	Grey	-	-
ML50G	50	Grey	-	-
ML63G	63	Grey	-	-
ML20R	20	Red	-	-
ML25R	25	Red	-	-
ML20W	20	White	-	-
ML25W	25	White	-	-

Applicable to Nylon glands - Chemical Resistance

Listed below is the general chemical resistance information for the materials used to manufacture the nylon glands detailed.

S = Suitable

L = Limited suitability

U = Unsuitable

Chemical Agent	Nylon
ASTM Oil No. 2	S
Acetaldehyde	L
Acetic acid (10%)	L
Acetic acid (glacial)	L
Acetone	S
Ammonium Hydroxide (35%)	S
Benzene	S
Benzyl Alcohol	L
Bromine (liquid)	U
Butyl Alcohol	S
Butyl Acetate	S
Butylamine	S
Carbon Tetrachloride	S
Chlorine Gas	U
Citric acid (10%)	S
Cresols	U
Cyclohexane	S
Diesel oil	S
Diethyl ether	S
Ethanol	S
Ethylamine	L
Ethylene glycol	S
Formaldehyde	S
Hexane	S
Hydrochloric acid (10%)	U
Hydrochloric acid (conc)	U
Hydrogen peroxide (35%)	L

Chemical Agent	Nylon
Hydrogen sulphide (gas)	S
Iso-octane	S
Iso-propanol	S
Lubricating oil	S
Methanol	L
Nitric acid (10%)	U
Nitric acid (conc)	U
Ozone (gas)	L
Paraffin oil	S
Petrol	S
Phenol	U
Silicone oils	S
Sodium hydroxide (60%)	S
Sodium hypochlorite (bleach)	L
Styrene	S
Sulphur dioxide (gas)	U
Sulphuric acid (10%)	U
Sulphuric acid (70%)	U
Toluene	S
Transformer oil	S
Trichloroethylene	L
Tricresyl phosphate (SKYDROL)	S
Turps	S
White spirit	S
Xylene	S
Zinc chloride	U

CW Brass Gland with Outer Seal



- To BS6121 : Part 1.
- Suitable for wire braid armoured, plastic or rubber sheathed cables.
- Outer seal grips sheath of cable.
- Seal rated to IP66.

- Weatherproof and water proof.
- Seal rated to IP66.
- Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface.

Brass glands are provided with steel locknuts and aluminium glands are provided with aluminium locknuts. For more corrosive environments brass locknuts may be supplied.

Glands are supplied in kit form, complete with locknuts, earthtags and shrouds.

Prysmian

Up to size 25:- 2 per kit
Size 32 and above:- 1 per kit

CMP

Up to size 32:- 2 per kit
Size 40 and above:- 1 per kit

CW (Brass or Aluminium) Gland with Outer Seal

Anixter Number	Gland Manu	Gland Size	Cable Dimensions Accommodated (mm)			
			Under Armour		Overall	
			Minimum	Maximum	Minimum	Maximum
E1AG-CW-16/20	CMP	16/20	-	8.7	6.1	11.5
E1AG-CW-20SSC	Prysmian	20SS	-	8.6	8.0	13.2
E1AG-CW-20S	CMP	20S	-	11.7	9.5	15.9
E1AG-CW-20SC	Prysmian	20S	-	11.6	8.0	15.8
E1AG-CW-20	CMP	20	-	14.0	12.5	20.9
E1AG-CW-20C	Prysmian	20	-	13.9	11.7	20.8
E1AG-CW-25	CMP	25	-	20.0	18.2	26.2
E1AG-CW-25C	Prysmian	25	-	19.9	17.0	27.2
E1AG-CW-32	CMP	32	-	26.3	23.7	33.9
E1AG-CW-32C	Prysmian	32	-	26.2	23.5	33.5
E1AG-CW-40	CMP	40	-	32.2	27.9	40.4
E1AG-CW-40C	Prysmian	40	-	32.1	29.0	39.9
E1AG-CW-50S	CMP	50S	-	38.2	35.2	46.7
E1AG-CW-50	CMP	50	-	44.1	40.4	53.1
E1AG-CW-50C	Prysmian	50	-	44.0	39.5	52.6
E1AG-CW-63S	CMP	63S	-	50.0	45.6	59.4
E1AG-CW-63	CMP	63	-	56.0	54.6	65.9
E1AG-CW-63C	Prysmian	63	-	55.9	51.3	65.3
E1AG-CW-75S	CMP	75S	-	62.0	59.0	72.1
E1AG-CW-75	CMP	75	-	68.0	66.7	78.5
E1AG-CW-75C	Prysmian	75	-	67.9	62.5	78.0
Aluminium CW glands for aluminium wire armoured cable						
E1DN-CW-25C	CMP	25	-	20.0	18.2	26.2
E1DN-CW-32C	CMP	32	-	26.3	23.7	33.9
E1DN-CW-40C	CMP	40	-	32.2	27.9	40.4
E1DN-CW-50SC	CMP	50S	-	38.2	35.2	46.7
E1DN-CW-50C	CMP	50	-	44.1	40.4	53.1

BW Brass Gland



- To BS6121: Part 1.
- Suitable for single wire armoured, plastic or rubber sheathed cables.
- For use in dry indoor situations.
- Low-cost two-part design.
- IP54.
- Shroud may be used for additional ingress protection.

Brass glands are provided with steel locknuts. For more corrosive environments brass locknuts may be supplied.

Anixter Number	Gland Manufacturer	Gland Size	Cable Dimensions Accommodated (mm)			
			Under Armour		Overall	
			Minimum	Maximum	Minimum	Maximum
E1AJ-BW-20SC	Prysmian	20S	-	11.6	-	15.8
E1AJ-BW-20S	CMP	20S	-	11.7	-	16.1
E1AJ-BW-20C	Prysmian	20	-	13.9	-	20.8
E1AJ-BW-20	CMP	20	-	14.0	-	21.1
E1AJ-BW-25C	Prysmian	25	-	19.9	-	27.2
E1AJ-BW-25	CMP	25	-	20.0	-	27.4
E1AJ-BW-32C	Prysmian	32	-	26.2	-	33.5
E1AJ-BW-32	CMP	32	-	26.3	-	34.4
E1AJ-BW-40C	Prysmian	40	-	32.1	-	39.9
E1AJ-BW-40	CMP	40	-	32.2	-	42.4
E1AJ-BW-50S	CMP	50S	-	38.2	-	50.1
E1AJ-BW-50C	Prysmian	50	-	44.0	-	52.6
E1AJ-BW-50	CMP	50	-	44.1	-	55.7
E1AJ-BW-63S	CMP	63S	-	50.0	-	62.4
E1AJ-BW-63C	Prysmian	63	-	55.9	-	65.3
E1AJ-BW-63	CMP	63	-	56.0	-	68.2
E1AJ-BW-75S	CMP	75S	-	62.0	-	76.8
E1AJ-BW-75C	Prysmian	75	-	67.9	-	78.0
E1AJ-BW-75	CMP	75	-	75.0	-	82.9

Glands are supplied in kit form, complete with locknuts, earthtags and shrouds.

Prysmian

Up to size 25:- 2 per kit
Size 32 and above:- 1 per kit

CMP

Up to size 32:- 2 per kit
Size 40 and above:- 1 per kit

E1W Brass Gland with Inner and Outer Seals



- To BS6121 : Part 1.
- Suitable for single wire armoured, plastic or rubber sheathed cables.
- Outer seal grips sheath of cable.
- Inner seal grips bedded layer of cable.
- Weatherproof and waterproof.
- Inner and outer seal rated to IP66.
- Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface.

Anixter Number	Gland Manu	Gland Size	Cable Dimensions Accommodated (mm)			
			Under Armour		Overall	
			Minimum	Maximum	Minimum	Maximum
E1BA-E1W-16/20C	CMP	16/20	3.1	8.7	6.1	11.5
E1BA-E1W-20SS	Prysmian	20SS	6.3	8.6	8.0	13.2
E1BA-E1W-20SC	CMP	20S	6.1	11.7	9.5	15.9
E1BA-E1W-20S	Prysmian	20S	8.7	11.6	8.0	15.8
E1BA-E1W-20C	CMP	20	6.5	14.0	12.5	20.9
E1BA-E1W-20	Prysmian	20	11.7	13.9	11.7	20.8
E1BA-E1W-25C	CMP	25	11.1	20.0	18.2	26.2
E1BA-E1W-25	Prysmian	25	13.0	19.9	17.0	27.2
E1BA-E1W-32C	CMP	32	17.0	26.3	23.7	33.9
E1BA-E1W-32	Prysmian	32	20.0	26.2	23.5	33.5
E1BA-E1W-40C	CMP	40	22.0	32.2	27.9	40.4
E1BA-E1W-40	Prysmian	40	26.3	32.1	29.0	39.9
E1BA-E1W-50SC	CMP	50S	29.5	38.2	35.2	46.7
E1BA-E1W-50S	Prysmian	50S	32.2	38.1	38.0	46.2
E1BA-E1W-50C	CMP	50	35.6	44.1	40.4	53.1
E1BA-E1W-50	Prysmian	50	38.2	44.0	39.5	52.6
E1BA-E1W-63SC	CMP	63S	40.1	50.0	45.6	59.4
E1BA-E1W-63C	CMP	63	47.2	56.0	54.6	65.9
E1BA-E1W-63	Prysmian	63	50.1	55.9	51.3	65.3
E1BA-E1W-75SC	CMP	75S	52.8	62.0	59.0	72.1
E1BA-E1W-75C	CMP	75	59.1	68.0	66.7	78.5
E1BA-E1W-75	Prysmian	75	62.0	67.9	62.5	78.0

Glands are supplied in kit form, complete with locknuts, earhtags and shrouds.

Prysmian

Up to size 25:- 2 per kit
Size 32 and above:- 1 per kit

CMP

Up to size 32:- 2 per kit
Size 40 and above:- 1 per kit

Low Smoke and Fume Gland Kits

- Convenient ready to use kits
- Contain everything necessary to terminate an LSF cable run - gland(s) with LSF seal(s), backnut(s), earth tag(s) and LSF shroud(s)
- Zero halogen
- Complies with the test criteria of BS6724, BS6853 category 1
- Continuous operating temperature of -50°C to 150°C
- Resists most chemicals, solvents, acids, alkalis, oils, moisture, steam and UV light
- Excellent tear resistance

NOTE: The materials utilised in these kits are noted for the absence of smoke generating constituents, particularly halogens (flourine, bromine and chlorine) thus avoiding the hazards of highly irritant and toxic fumes emitted by standard materials such as PCP and PVC when exposed to flame

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BW Brass Gland – LSF



- To BS6121 : Part 1.
- Suitable for single wire armoured, plastic or rubber sheathed cables.
- For use in dry, indoor situations.
- Low cost two-part design.
- IP54.
- LSF shroud may be used for additional ingress protection.

Anixter Number	Gland Manu	Gland Size	Cable Dimensions Accommodated (mm)			
			Under Armour		Overall	
			Minimum	Maximum	Minimum	Maximum
E1AJ-BW-20SLSF	Prysmian	20S	-	11.6	-	15.8
E1AJ-BW-20SCLSF	CMP	20S	-	11.7	-	16.1
E1AJ-BW-20LSF	Prysmian	20	-	13.9	-	20.8
E1AJ-BW-20CLSF	CMP	20	-	14.0	-	21.1
E1AJ-BW-25LSF	Prysmian	25	-	19.9	-	27.2
E1AJ-BW-25CLSF	CMP	25	-	20.0	-	27.4
E1AJ-BW-32LSF	Prysmian	32	-	26.2	-	33.5
E1AJ-BW-32CLSF	CMP	32	-	26.3	-	34.4
E1AJ-BW-40LSF	Prysmian	40	-	32.1	-	39.9
E1AJ-BW-40CLSF	CMP	40	-	32.2	-	42.4
E1AJ-BW-50SCLSF	CMP	50S	-	38.2	-	50.1
E1AJ-BW-50LSF	Prysmian	50	-	44.0	-	52.6
E1AJ-BW-50CLSF	CMP	50	-	44.1	-	55.7
E1AJ-BW-63SCLSF	CMP	63S	-	50.0	-	62.4
E1AJ-BW-63LSF	Prysmian	63	-	55.9	-	65.3
E1AJ-BW-63CLSF	CMP	63	-	56.0	-	68.2
E1AJ-BW-75SCLSF	CMP	75S	-	62.0	-	76.8
E1AJ-BW-75LSF	Prysmian	75	-	67.9	-	78.0
E1AJ-BW-75CLSF	CMP	75	-	68.0	-	82.9

Glands are supplied in kit form, complete with locknuts, earthtags and shrouds.

Prysmian Up to size 25:- 2 per kit
 Size 32 and above:- 1 per kit

CMP Up to size 32:- 2 per kit
 Size 40 and above:- 1 per kit

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Accessories

CW Brass Gland with Outer LSF Seal

- To BS6121 : Part 1.
- Suitable for wire braid armoured, plastic or rubber sheathed cables.
- Outer LSF seal grips sheath of cable.
- Seal rated to IP66.
- Weatherproof and water proof.
- Seal rated to IP66.
- Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface.

Glands are supplied in kit form, complete with locknuts, earthtags and shrouds.

- Prismian
 - Up to size 25:- 2 per kit
 - Size 32 and above:- 1 per kit
- CMP
 - Up to size 32:- 2 per kit
 - Size 40 and above:- 1 per kit

CW Gland with Outer LSF Seal

Anixter Number	Gland Manu	Gland Size	Cable Dimensions Accommodated (mm)			
			Under Armour		Overall	
			Minimum	Maximum	Minimum	Maximum
E1AG-CW-20SSLSF	Prysmian	20SS	-	8.6	8.0	13.2
E1AG-CW-20SCLSF	CMP	20S	-	11.7	9.5	15.9
E1AG-CW-20LSF	Prysmian	20S	-	11.6	8.0	15.8
E1AG-CW-20CLSF	CMP	20	-	14.0	12.5	20.9
E1AG-CW-20LSF	Prysmian	20	-	13.9	11.7	20.8
E1AG-CW-25SCLSF	CMP	25	-	20.0	18.2	26.2
E1AG-CW-25LSF	Prysmian	25	-	19.9	17.0	27.2
E1AG-CW-32SCLSF	CMP	32	-	26.3	23.7	33.9
E1AG-CW-32LSF	Prysmian	32	-	26.2	23.5	33.5
E1AG-CW-40SCLSF	CMP	40	-	32.2	27.9	40.4
E1AG-CW-40LSF	Prysmian	40	-	32.1	29.0	39.9
E1AG-CW-50SCLSF	CMP	50S	-	38.2	35.2	46.7
E1AG-CW-50SLSF	Prysmian	50S	-	38.1	38.0	46.2
E1AG-CW-50SCLSF	CMP	50	-	44.1	40.4	53.1
E1AG-CW-50LSF	Prysmian	50	-	44.0	39.5	52.6
E1AG-CW-63SCLSF	CMP	63S	-	50.0	45.6	59.4
E1AG-CW-63SCLSF	CMP	63	-	56.0	54.6	65.9
E1AG-CW-63LSF	Prysmian	63	-	55.9	51.3	65.3
E1AG-CW-75SCLSF	CMP	75S	-	62.0	59.0	72.1
E1AG-CW-75SCLSF	CMP	75	-	68.0	66.7	78.5
E1AG-CW-75LSF	Prysmian	75	-	67.9	62.5	78.0

Selecting Glands for Hazardous Areas

ZONE CLASSIFICATION

Zone 0 (Division 0)

Explosive gas/air mixture is continuously present or for long periods. No equipment should be terminated in this zone.

Zone 1 (Division 1)

Explosive gas/air mixture is likely to occur in normal operation.

Zone 2 (Division 2)

Explosive gas/air mixture is not likely to occur and if so, only for a short period of time.

Increased Safety Glands(E.Exe)

For use in hazardous environments and comply with EN50014 and EN 50019 (BS5501 Part 1 and Part 6). These glands can only be used where no parts of the electrical equipment can produce sparks/arcing or exceeds the gas ignition temperature. E.Exe glands are normally recommended for Zone 2 applications but can be used in Zone 1, i.e. indirect entry situations.

Flameproof (E.Exd) Glands

For use in hazardous environments and comply with EN50014 and EN50018 (BS5501 Part 1 and Part 5). These glands are approved for direct entry applications in Zone 1 areas, IIA, IIB or IIC gas groups with the exception of A2F glands which are for IIA and IIB groupings - may also be used in Zone 2 areas.

Explosion Proof Barrier Glands

For use in hazardous environments and comply with EN50014 and EN 50018 (BS5501 Part 1 and Part 5). These glands are approved for direct entry applications in Zone 1 areas, IIA, IIB, or more commonly IIC gas groups.

Selecting Barrier Glands as opposed to Conventional Flameproof Glands

The main applications for the specification of barrier glands in accordance with the relevant codes of practice, can be summarised as follows:

- with enclosures containing an ignition source and installed in Group IIC gas areas
- with an enclosure containing an ignition source and in a Zone 1 area where the volume of the enclosure exceeds 2 litres
- with cables other than those specified in BS5308, BS5467, BS6116, BS6346, BS6724, 6883 and BS7917.
- where 'cold flow' of cable installation is considered a possibility
- to prevent gas migration from one area to another
- to prevent moisture migration in cables
- where the user assessment considers a barrier gland essential for safety

A2F & A2EX Flameproof & Increased Safety Brass Gland with Outer Seal



- Suitable for unarmoured, plastic or rubber sheathed cables.
- Suitable for most indoor and outdoor applications
- Seal rated to IP66.
- Complies with IIA, IIB and IIC hazardous atmospheres (EN60079).
- Zone 1 and Zone 2 applications.
- For use with flameproof and increased safety equipment (E.Exd and E.Exe).
- ATEX Certified.

Anixter Number	Gland Manu	Gland Size	Cable Dimensions Accommodated (mm)	
			Overall	
			Minimum	Maximum
E1AT-A2F-16/20C	CMP	16/20	3.2	8.7
E1AT-A2EX-20SS	Prysmian	20SS	3.5	8.5
E1AT-A2F-20SC	CMP	20S	6.1	11.7
E1AT-A2EX-20S	Prysmian	20S	8.0	11.5
E1AT-A2F-20C	CMP	20	6.5	14.0
E1AT-A2EX-20	Prysmian	20	8.0	16.0
E1AT-A2F-25C	CMP	25	11.1	20.0
E1AT-A2EX-25	Prysmian	25	11.5	21.0
E1AT-A2F-32C	CMP	32	17.0	26.3
E1AT-A2EX-32	Prysmian	32	18.5	27.5
E1AT-A2F-40C	CMP	40	23.5	32.2
E1AT-A2EX-40	Prysmian	40	24.0	34.0
E1AT-A2F-50SC	CMP	50S	31.0	38.2
E1AT-A2F-50C	CMP	50	35.6	44.1
E1AT-A2EX-50	Prysmian	50	31.0	41.0
E1AT-A2F-63SC	CMP	63S	41.5	50.0
E1AT-A2F-63C	CMP	63	47.2	56.0
E1AT-A2EX-63	Prysmian	63	40.0	52.5

Glands are supplied in kit form, complete with locknuts and shrouds.

Up to size 25:- 2 per kit

Size 32 and above:- 1 per kit, with exception of CMP size 32 which contains 2 per kit.

E1WF Flameproof and Increased Safety Brass Gland with Inner and Outer Seals



- Suitable for single wire armoured, plastic or rubber sheathed cables.
- Outer seal grips sheath of cable.
- Inner seal grips bedded layer of cable.
- Weatherproof and waterproof.
- Inner and outer seal rated to IP66.
- Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface.
- Complies with IIA, IIB and IIC hazardous atmospheres (EN60079).
- Zone 1 and Zone 2 applications.
- For use with flameproof and increased safety equipment (E.Exd and E.Exe).
- ATEX Certified.

Anixter Number	Gland Manufacturer	Gland Size	Cable Dimensions Accommodated (mm)			
			Under Armour		Overall	
			Minimum	Maximum	Minimum	Maximum
E1BN-E1WF-16/20C	CMP	16/20	3.1	8.7	6.0	11.5
E1BN-E1WF-20SS	Prysmian	20SS	3.81	8.74	8.0	13.2
E1BN-E1WF-20SC	CMP	20S	6.1	11.7	9.5	15.9
E1BN-E1WF-20S	Prysmian	20S	8.0	11.79	8.0	15.8
E1BN-E1WF-20C	CMP	20	6.5	14.0	12.5	20.9
E1BN-E1WF-20	Prysmian	20	11.79	14.15	11.7	20.8
E1BN-E1WF-25C	CMP	25	11.1	20.0	18.2	26.2
E1BN-E1WF-25	Prysmian	25	14.0	20.12	17.0	27.2
E1BN-E1WF-32C	CMP	32	17.0	26.3	23.7	33.9
E1BN-E1WF-32	Prysmian	32	19.7	26.55	23.5	33.5
E1BN-E1WF-40C	CMP	40	22.0	32.2	27.9	40.4
E1BN-E1WF-40	Prysmian	40	26.55	32.42	29.0	39.9
E1BN-E1WF-50SC	CMP	50S	29.5	38.2	35.2	46.7
E1BN-E1WF-50S	Prysmian	50S	32.42	38.39	38.0	46.2
E1BN-E1WF-50C	CMP	50	35.6	44.1	40.0	53.1
E1BN-E1WF-50	Prysmian	50	38.39	44.33	39.5	52.6
E1BN-E1WF-63SC	CMP	63S	40.1	50.0	45.6	59.4
E1BN-E1WF-63C	CMP	63	47.2	56.0	54.6	65.9
E1BN-E1WF-63	Prysmian	63	50.27	56.24	51.3	65.3
E1BN-E1WF-75SC	CMP	75S	52.8	62.0	59.0	72.1
E1BN-E1WF-75C	CMP	75	59.1	68.0	66.7	78.5
E1BN-E1WF-75	Prysmian	75	62.18	68.13	62.5	78.0

Glands are supplied in kit form, complete with locknuts, earhtags and shrouds.

Prysmian Up to size 25:- 2 per kit. Size 32 and above:- 1 per kit.

CMP Up to size 32:- 2 per kit. Size 40 and above:- 1 per kit.

E1XF Flameproof & Increased Safety Brass Gland with Inner and Outer Seals



- Suitable for single wire armoured, plastic or rubber sheathed cables.
- Outer seal grips sheath of cable.
- Inner seal grips bedded layer of cable.
- Weatherproof and waterproof.
- Inner and outer seal rated to IP66.
- Design has separate armour locking ring.
- Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface.
- Complies with IIA, IIB and IIC hazardous atmospheres (EN60079).
- Zone 1 and Zone 2 applications.
- For use with flameproof and increased safety equipment (E.Exd and E.Exe).
- ATEX Certified.

Anixter Number	Gland Manu	Gland Size	Cable Dimensions Accommodated (mm)			
			Under Armour		Overall	
			Minimum	Maximum	Minimum	Maximum
E1BP-E1XF-20SS	Prysmian	20SS	3.81	8.74	8.0	13.2
E1BP-E1XF-20S	Prysmian	20S	8.0	11.79	8.0	15.8
E1BP-E1XF-20	Prysmian	20	11.79	14.15	11.7	20.8
E1BP-E1XF-25	Prysmian	25	14.0	20.12	17.0	27.2
E1BP-E1XF-32	Prysmian	32	19.7	26.55	23.5	33.5
E1BP-E1XF-40	Prysmian	40	26.55	32.42	29.0	39.9
E1BP-E1XF-50S	Prysmian	50S	32.42	38.39	38.0	46.2
E1BP-E1XF-50	Prysmian	50	38.39	44.33	39.5	52.6
E1BP-E1XF-63	Prysmian	63	50.27	56.24	51.3	65.3
E1BP-E1XF-75	Prysmian	75	62.18	68.13	62.5	78.0

Glands are supplied in kit form, complete with locknuts, earthtags and shrouds.

Prysmian Up to size 25:- 2 per kit
 Size 32 and above:- 1 per kit

Universal Flameproof & Increased Safety Gland with Inner & Outer Seals

- Suitable for wire braid, single wire, steel tape and strip armoured plastic or rubber sheathed, extruded bedded cables.
- Outer seal grips sheath of cable.
- Inner seal grips bedded layer of cable.
- Weatherproof and waterproof.
- Inner and outer seal rated to IP66.
- Design has separate outer locking ring.
- Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface.
- For use with flameproof equipment or increased safety equipment (E.Exd or E.Exe).
- Complies with group IIA, IIB, IIC hazardous atmospheres (EN 60079).
- ATEX Certified.
- Zone 1 and Zone 2 applications.
- Incorporates external boot seal which offers protection against moisture ingress to the armour.

Anixter Number	Gland Manu	Gland Size	Cable Dimensions Accommodated (mm)			
			Under Armour		Overall	
			Minimum	Maximum	Minimum	Maximum
E1DZ-UNI-20SS	HAWKE	20SS	3.0	8.1	5.5	12.0
E1DZ-UNI-20S	HAWKE	20S	6.5	11.9	9.5	16.0
E1DZ-UNI-20	HAWKE	20	8.4	14.3	12.5	20.5
E1DZ-UNI-25	HAWKE	25	11.1	20.2	16.9	26.0
E1DZ-UNI-32	HAWKE	32	17.6	26.5	22.0	33.0
E1DZ-UNI-40	HAWKE	40	23.1	32.5	28.0	41.0
E1DZ-UNI-50	HAWKE	50	28.9	44.4	36.0	52.6
E1DZ-UNI-63	HAWKE	63	39.9	56.3	46.0	65.3
E1DZ-UNI-75	HAWKE	75	50.5	68.2	57.0	78.0

Brass Earth Tags



- Ensure earth continuity is maintained between the gland and the equipment.
- Aluminium earth tags should be used with aluminium glands.

NOTE: Earth bond connections are specified in IEE wiring regulations and relevant Codes of Practice.

Tag Details

Anixter Number	ISO Entry Thread Diameter (mm)	Bolt Hole Diameter (mm)
BET20	20	7.2
BET25	25	10.3
BET32	32	11.9
BET40	40	13.5
BET50	50	13.5
BET63	63	13.5
BET75	75	13.5

High Performance Sealing Washers



- Improve the IP rating between the gland and the equipment i.e. IP66.
- Fibre or Nylon available according to customer preference.

Washer Details

Anixter Number	ISO Entry Thread Diameter (mm)	Washer Material
NSW20W	20	Nylon
NSW25W	25	Nylon
NSW32W	32	Nylon
NSW40W	40	Nylon
NSW50W	50	Nylon
NSW63W	63	Nylon
NSW75W	75	Nylon
FW20S	20 (Small)	Fibre
FW20L	20 (Large)	Fibre
FW32	32	Fibre
FW40	40	Fibre
FW50	50	Fibre
FW63	63	Fibre
FW75	75	Fibre

Galvanised Serrated Washers

- Used to prevent loosening of locknut.
- Mild steel zinc plated.

Washer Details

Anixter Number	ISO Entry Thread Diameter (mm)
SER20	20
SER25	25
SER32	32
SER40	40
SER63	63
SER50	50

Steel, Brass & Aluminium Locknuts



- Used to secure gland body to the equipment where entry hole is not tapped.
- Brass backnut recommended for most corrosive environments.
- Aluminium backnut should be used with aluminium glands.
- Steel backnut are primarily for dry, low humidity environments.

Locknut Details

Anixter Number	ISO Entry Thread Diameter (mm)	Locknut Material
BLN20	20	BRASS
BLN25	25	BRASS
BLN32	32	BRASS
BLN40	40	BRASS
BLN50	50	BRASS
BLN63	63	BRASS
BLN75	75	BRASS

Steel and aluminium locknuts are available when required.

PCP/PVC Shrouds



- For fitting over cable glands where additional protection against onerous weather conditions and corrosion is required.
- Provide an effective seal onto both gland and cable oversheath.
- PCP shrouds are particularly recommended for outdoor and the most hostile conditions and are not affected by ultraviolet rays contained in sunlight.
- PVC shrouds for use in dry indoor and most outdoor situations.

Shroud Details

Anixter Number	To Suit Gland Size (mm)	Shroud Material
PCPO	20S	PCP
PCPA	20	PCP
PCPB	25	PCP
PCPC	32	PCP
PCPC2	40	PCP
PCPD	50	PCP
PCPE	63	PCP
PCPF	75	PCP
SHR/O	20S	PVC
SHR/A	20	PVC
SHR/B	25	PVC
SHR/C	32	PVC
SHR/C2	40	PVC
SHR/D	50	PVC
SHR/E	63	PVC
SHR/F	75	PVC

Lugs for Medium Voltage Cables



These compression lugs are based on the standard tin plated connectors manufactured by Prysmian, and are suitable for indoor and outdoor locations. Connections are manufactured from thick wall copper tubing and incorporate single hole palm. The base of the compression barrel is effectively water blocked via incorporation of a waterproof seal during manufacture.

Lug Details

Anixter Number	To Suit Conductor Size (mm ²)	Stud Size (mm)
LUGMV-7010	70	10
LUGMV-9510	95	10
LUGMV-12012	120	12
LUGMV-15012	150	12
LUGMV-18512	185	12
LUGMV-24012	240	12
LUGMV-30012	300	12

Lugs



The use of compression lugs for securing conductors to terminals has long been recognised as offering the optimum combination of electrical integrity, reliability and speedy installation. Single hole, two hole and four hole palm lugs available.

The compression system ensures a high level of termination when used in association with tooling supplied by the same manufacturer ensuring that the completed installation complies with the standards laid down in BS EN 61238-1(Compression joints in copper conductors). Anixter stocks uninsulated compression lugs, produced from high conductivity electrolytic copper having a tin plated finish for operating temperatures up to 150 °C and also to prevent corrosion.

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Anixter Number	To Suit Conductor Size (mm ²)		Stud Size (mm)
	Flex	Str.	
Single Hole Palm			
LUG65			5
LUG66	4.0 to		6
LUG68	6.0		8
LUG6	10		10
LUG105	10		5
LUG106			6
LUG108			8
LUG1010			10
LUG1012			12
LUG165	10	16	5
LUG166			6
LUG168			8
LUG1610			10
LUG1612			12
LUG256			6
LUG258	16	25	8
LUG2510			10
LUG2512			12
LUG356	25	35	6
LUG358			8
LUG3510			10
LUG3512			12
LUG506	35	50	6
LUG508			8
LUG5010			10
LUG5012			12
LUG708	50	70	8
LUG7010			10
LUG7012			12
LUG7016			16
LUG9510	70	95	10
LUG9512			12
LUG9516			16

Anixter Number	To Suit Conductor Size (mm ²)		Stud Size (mm)
	Flex	Str.	
LUG12010	95	120	10
LUG12012			12
LUG12016			16
LUG12020			20
LUG15010	120	150	10
LUG15012			12
LUG15016			16
LUG18510	150	185	10
LUG18512			12
LUG18516			16
LUG18520			20
LUG24010	185	240	10
LUG24012			12
LUG24016			16
LUG24020			20
LUG30010	240	300	10
LUG30012			12
LUG30016			16
LUG30020			20
LUG40016	300	400	16
LUG50020	400	500	20
LUG63020	500	630	20
Two Hole Palm			
E1AE-BT-150-C12B2	120	150	12
E1AE-BT-185-C12B2	150	185	12
E1AE-BT-240-C12B2	185	240	12
E1AE-BT-300-C12B2	240	300	12
E1AE-BT-400-C12B2	300	400	12
E1AE-BT-500-C12B2	400	500	12
Four Hole Palm			
LUG3008H4	240	300	8
LUG4008H4	300	400	8
LUG5008H4	400	500	8
LUG6308H4	500	630	8

With regards to lugs for flexible conductors, it is common practice to go up one lug size to allow for the larger conductor diameter on a flexible conductor. e.g. A 70sqmm lug size is used on a 50sqmm cable having flexible conductors. It is also necessary to ensure, that all the wires are contained within the lug, prior to the crimp being applied. For through crimps refer to joints section on page 17.38.

Insulated Crimps



The use of compression crimps for securing conductors to terminals has long been recognised as offering the optimum combination of electrical integrity, reliability and speedy installation. Anixter can offer a range of UL approved (E163810) crimps insulated with high grade PVC which makes crimping easy whilst ensuring complete integrity of termination. Standard types available are ring crimp, fork crimp, flat blade crimp, pin crimp and butt splice types. Other sizes and types available from stock are Flanged Forks, Male Tabs, Female Push-ons, Fully insulated Female Push-ons, Piggy Backs, Male & Female Bullets.

Crimp tools to suit are also available from stock. All crimps are supplied in packs of 100.

Anixter Number	Description	To Suit Conductor Size
IRI.5-3.2	Red Insulated Ring Crimp 3.2mm hole	0.5 to 1.5sqmm (22-16 AWG)
IRI.5-4.3	Red Insulated Ring Crimp 4.3mm hole	0.5 to 1.5sqmm (22-16 AWG)
IRI.5-5.3	Red Insulated Ring Crimp 5.3mm hole	0.5 to 1.5sqmm (22-16 AWG)
IRI.5-6.5	Red Insulated Ring Crimp 6.5mm hole	0.5 to 1.5sqmm (22-16 AWG)
IRI.5-8.5	Red Insulated Ring Crimp 8.5mm hole	0.5 to 1.5sqmm (22-16 AWG)
IRI.5-10	Red Insulated Ring Crimp 10mm hole	0.5 to 1.5sqmm (22-16 AWG)
IF1.5-3.2	Red Insulated Fork Crimp 3.2mm hole	0.5 to 1.5sqmm (22-16 AWG)
IF1.5-4.3	Red Insulated Fork Crimp 4.3mm hole	0.5 to 1.5sqmm (22-16 AWG)
IF1.5-5.3	Red Insulated Fork Crimp 5.3mm hole	0.5 to 1.5sqmm (22-16 AWG)
IBL1.5-11	Red Insulated Flat Blade Crimp 11mm	0.5 to 1.5sqmm (22-16 AWG)
IBL1.5-18	Red Insulated Flat Blade Crimp 18mm	0.5 to 1.5sqmm (22-16 AWG)
IP1.5-10	Red Insulated Pin Crimp 10mm Long	0.5 to 1.5sqmm (22-16 AWG)
IS1.5-1.5	Red Insulated Butt Splices	0.5 to 1.5sqmm (22-16 AWG)
IR2.5-3.2	Blue Insulated Ring Crimp 3.2mm hole	1.5 to 2.5sqmm (16-14 AWG)
IR2.5-4.3	Blue Insulated Ring Crimp 4.3mm hole	1.5 to 2.5sqmm (16-14 AWG)
IR2.5-5.3	Blue Insulated Ring Crimp 5.3mm hole	1.5 to 2.5sqmm (16-14 AWG)
IR2.5-6.5	Blue Insulated Ring Crimp 6.5mm hole	1.5 to 2.5sqmm (16-14 AWG)
IR2.5-8.5	Blue Insulated Ring Crimp 8.5mm hole	1.5 to 2.5sqmm (16-14 AWG)
IR2.5-10	Blue Insulated Ring Crimp 10mm hole	1.5 to 2.5sqmm (16-14 AWG)
IF2.5-3.2	Blue Insulated Fork Crimp 3.2mm hole	1.5 to 2.5sqmm (16-14 AWG)
IF2.5-4.3	Blue Insulated Fork Crimp 4.3mm hole	1.5 to 2.5sqmm (16-14 AWG)
IF2.5-5.3	Blue Insulated Fork Crimp 5.3mm hole	1.5 to 2.5sqmm (16-14 AWG)
IBL2.5-9	Blue Insulated Flat Blade Crimp 9mm	1.5 to 2.5sqmm (16-14 AWG)
IBL2.5-18	Blue Insulated Flat Blade Crimp 18mm	1.5 to 2.5sqmm (16-14 AWG)
IP2.5-10	Blue Insulated Pin Crimp 10mm Long	1.5 to 2.5sqmm (16-14 AWG)
IS2.5-2.5	Blue Insulated Butt Splices	1.5 to 2.5sqmm (16-14 AWG)

Insulated Crimps

(continued)

Anixter Number	Description	To Suit Conductor Size
IR6-3.2	Yellow Insulated Ring Crimp 3.2mm hole	4.0 to 6.0sqmm (12–10 AWG)
IR6-4.3	Yellow Insulated Ring Crimp 4.3mm hole	4.0 to 6.0sqmm (12–10 AWG)
IR6-5.3	Yellow Insulated Ring Crimp 5.3mm hole	4.0 to 6.0sqmm (12–10 AWG)
IR6-6.5	Yellow Insulated Ring Crimp 6.5mm hole	4.0 to 6.0sqmm (12–10 AWG)
IR6-8.5	Yellow Insulated Ring Crimp 8.5mm hole	4.0 to 6.0sqmm (12–10 AWG)
IR6-10	Yellow Insulated Ring Crimp 10mm hole	4.0 to 6.0sqmm (12–10 AWG)
IF6-3.2	Yellow Insulated Fork Crimp 3.2mm hole	4.0 to 6.0sqmm (12–10 AWG)
IF6-4.3	Yellow Insulated Fork Crimp 4.3mm hole	4.0 to 6.0sqmm (12–10 AWG)
IF6-5.3	Yellow Insulated Fork Crimp 5.3mm hole	4.0 to 6.0sqmm (12–10 AWG)
IBL6-10	Yellow Insulated Flat Blade Crimp 10mm	4.0 to 6.0sqmm (12–10 AWG)
IBL6-18	Yellow Insulated Flat Blade Crimp 18mm	4.0 to 6.0sqmm (12–10 AWG)
IP6-14	Yellow Insulated Pin Crimp 14mm Long	4.0 to 6.0sqmm (12–10 AWG)
IS6-6	Yellow Insulated Butt Splices	4.0 to 6.0sqmm (12–10 AWG)

Core End Ferrules (Bootlace Crimps)



French Colour Code		German Colour Code	
Anixter Number	Description	Anixter Number	Description
KPET0.5F	0.5sqmm Bootlace Crimp - White	KPET0.5G	0.5sqmm Bootlace Crimp - Orange
KPET0.75F	0.75sqmm Bootlace Crimp - Blue	KPET0.75G	0.75sqmm Bootlace Crimp - White
KPET1.0F	1.0sqmm Bootlace Crimp - Red	KPET1.0G	1.0sqmm Bootlace Crimp - Yellow
KPET1.5F	1.5sqmm Bootlace Crimp - Black	KPET1.5G	1.5sqmm Bootlace Crimp - Red
KPET2.5F	2.5sqmm Bootlace Crimp - Grey	KPET2.5G	2.5sqmm Bootlace Crimp - Blue
KPET4F	4.0sqmm Bootlace Crimp - Orange	KPET4G	4.0sqmm Bootlace Crimp - Grey
KPET6F	6.0sqmm Bootlace Crimp - Green	KPET6G	6.0sqmm Bootlace Crimp - Black
KPET10F	10sqmm Bootlace Crimp - Brown	KPET10G	10sqmm Bootlace Crimp - Ivory
KPET16F	16sqmm Bootlace Crimp - Ivory	KPET16G	16sqmm Bootlace Crimp - Green

Telcleats – Black Polythene & Grey LSF



- Range taking and self adjusting.
- Just 8 sizes cover from 10mm to 51mm diameter.
- Ultraviolet and weather resistant.
- Low cost.
- Versatile.
- One piece.
- Single fixing.
- LSF cleats are low smoke and fume emission and zero halogen.
- Coloured grey to distinguish from black coloured Telcleat.
- Meets requirements of BS6853 and LUL specification 1-085 (formerly 2-01001-2 and E1042) with regards to temperature index, smoke emission and toxicity ratings.

Cleat Details

Anixter Number	Cable Dimensions Accommodated	
	Minimum (mm)	Maximum (mm)
Black Polythene		
E1D-A01	10.5	14.5
E1D-A02	12.2	16.7
E1D-A03	14.6	19.8
E1D-A04	17.7	24.0
E1D-A05	21.7	28.5
E1D-A06	26.2	34.2
E1D-A07	31.9	41.6
E1D-A08	39.3	51.1
Grey LSF		
E1D-A01LSF	10.5	14.5
E1D-A02LSF	12.2	16.7
E1D-A03LSF	14.6	19.8
E1D-A04LSF	17.7	24.0
E1D-A05LSF	21.7	28.5
E1D-A06LSF	26.2	34.2
E1D-A07LSF	31.9	41.6
E1D-A08LSF	39.3	51.1

Standard Cable Cleats



Anixter can supply a range of inexpensive single or two part cleats manufactured in high strength polypropylene. These provide a high level of resistance to:

- Impact.
- Corrosive environments.
- Ultra Violet Light.
- Temperature variations, -35°C to +105°C.

Cleat Details

Single Hole Fixing		Two Hole Fixing	
Anixter Number	Cleat Range (mm)	Anixter Number	Cleat Range (mm)
CLEAT5	10.1 to 12.7	MT9	50.0 to 57.0
CLEAT6	12.6 to 15.2	MT10	57.0 to 64.0
CLEAT7	15.1 to 17.8	MT11	64.0 to 70.0
CLEAT8	17.7 to 20.3	MT12	70.0 to 76.0
CLEAT9	20.2 to 22.8	MT14	76.0 to 85.0
CLEAT10	22.7 to 25.4	MT15	75.0 to 105.0
CLEAT11	25.3 to 27.7	-	-
CLEAT12	27.6 to 30.4	-	-
CLEAT14	30.3 to 35.5	-	-
CLEAT16	35.4 to 40.6	-	-
CLEAT18	40.5 to 45.7	-	-
CLEAT20	45.6 to 50.8	-	-

Telcleats – Black Polythene & Grey LSF

Cleat Selection Chart

Cond Size sqmm	Core 1	Core 2	Core 3	Core 4	Core 5	Core 7	Core 12	Core 19	Core 27	Core 37
1.5	-	C5	C5	C6	C6	C6	C8	C9	C10	C12
2.5	-	C6	C6	C6	C7	C7	C9	C10	C12	C14
4	-	C7	C7	C7	C8	C8	C11	-	-	-
6	-	C7	C8	C8	C8	C9	C12	-	-	-
10	-	C8	C9	C9	C10	C11	-	-	-	-
16	-	C9	C10	C11	C11	C12	-	-	-	-
25	-	C12	C12	C12	C14	C16	-	-	-	-
35	-	C12	C12	C14	C14	-	-	-	-	-
50	C8	C11	C12	C14	C16	-	-	-	-	-
70	C9	C12	C14	C16	C18	-	-	-	-	-
95	C10	C14	C16	C18	C20	-	-	-	-	-
120	C11	C16	C19	C20	MT9	-	-	-	-	-
150	C12	C18	C20	MT9	-	-	-	-	-	-
185	C14	C20	MT9	MT10	-	-	-	-	-	-
240	C14	MT9	MT10	MT11	-	-	-	-	-	-
300	C16	MT9	MT10	MT12	-	-	-	-	-	-
400	C18	MT10	MT11	MT14	-	-	-	-	-	-

Please note that the above chart is a guide, and cable OD should be checked prior to cleat selection.

Claw & Two Bolt Cleats – Aluminium Alloy



- Claw cleats for cable dimensions up to 51mm diameter.
- Two bolt cleats for cable dimensions 51mm and above.

Cleat Details

Anixter Number	Cable Dimensions Accommodated	
	Minimum (mm)	Maximum (mm)
Claw Cleats		
E1B-BA01	10	13
E1B-BA02	13	16
E1B-BA03	16	19
E1B-BA04	19	22
E1B-BA05	22	25
E1B-BA06	25	32
E1B-BA07	32	38
E1B-BA08	38	44
E1B-BA09	44	51
Two Bolt Cleats		
E1B-BA10	51	57
E1B-BA11	57	64
E1B-BA12	64	70
E1B-BA13	70	76
E1B-BA14	76	83
E1B-BA15	83	89

Cable Management – Cable Ties and Tapes



Cable Ties

- Made from high quality Nylon 6.6.
- Excellent resistance to: Bases, Oils, Greases, Oil Products, Chlorate Solvents. Limited resistance to acids.
- UV resistant for outdoor applications.
- Operating temperature -40°C to $+80^{\circ}\text{C}$.
- Flammability rating UL94 Class V2.
- Dielectric strength 50 kV/mm.

Anixter Number	Description
Cable Ties	
KCT100-2.5	Cable Tie, length 100mm x width 2.5mm, pack of 100, BLACK
KCT140-3.6	Cable Tie, length 140mm x width 3.6mm, pack of 100, BLACK
KCT200-4.8	Cable Tie, length 200mm x width 4.8mm, pack of 100, BLACK
KCT300-3.6	Cable Tie, length 300mm x width 3.6mm, pack of 100, BLACK
KCT300-4.8	Cable Tie, length 300mm x width 4.8mm, pack of 100, BLACK
KCT370-4.8	Cable Tie, length 370mm x width 4.8mm, pack of 100, BLACK
KCT370-7.6	Cable Tie, length 370mm x width 7.6mm, pack of 100, BLACK
KCT100-2.5N	Cable Tie, length 100mm x width 2.5mm, pack of 100, NATURAL
KCT140-3.6N	Cable Tie, length 140mm x width 3.6mm, pack of 100, NATURAL
KCT200-4.8N	Cable Tie, length 200mm x width 4.8mm, pack of 100, NATURAL
KCT300-3.6N	Cable Tie, length 300mm x width 3.6mm, pack of 100, NATURAL
All Round Band	
ARB17BL	All Round Band 17mm hole, coated LSF Black - 10mtr coil
PVC Insulation Tapes	
PVCTBK	PVC Insulation Tape, Black, 19mm x 20m long
PVCTBN	PVC Insulation Tape, Brown, 19mm x 20m long
PVCTBU	PVC Insulation Tape, Blue, 19mm x 20m long
PVCTGR	PVC Insulation Tape, Grey, 19mm x 20m long
PVCTGY	PVC Insulation Tape, Green/Yellow, 19mm x 20m long
PVCTRE	PVC Insulation Tape, Red, 19mm x 20m long
PVCTWH	PVC Insulation Tape, White, 19mm x 20m long
PVCTGN	PVC Insulation Tape, Green, 19mm x 20m long
PVCTOR	PVC Insulation Tape, Orange, 19mm x 20m long
PVCTYE	PVC Insulation Tape, Yellow, 19mm x 20m long

Cable Tiles & Warning Tapes

Plastic warning cable tiles and warning tapes for buried cables and have the following warning legend:



Cable Tile Details

Anixter Number	Tile Dimensions (mm)
WCT150	1000 x 152 x 12mm



Warning Tape Details

Anixter Number	Tape Dimensions (mm)
HEPT	450mm wide x 100 microns thick (333m roll)

Polyurethane Resin Encapsulation Suitable for 2, 3, 4 core XLPE/PVC SWA Copper Conductor Cables



- Joints comply with the requirements of BS 6910 Part 1, DIN VDE 0278 Parts 1, 3, 293 and 623, EN 50393 and Cenelec HD 623.
- Transparent shell to allow inspection joint before application of resin. PUJ joints utilise Two-Part Polyurethane resin to encapsulate, insulate and protect the jointed conductors.
- Resin and hardener are separated by a “centre peelable seal” in Twin Pack Laminated Sachet (completely enclosed mixing).
- Unmixed ingredients have shelf life of 18 months based on average UK temperatures.
- All joints supplied with two part shell, resin pack, earth continuity, gloves and sealing tape. Conductor connectors included up to 35sqmm.

Anixter Number	To Suit Conductor Size			Shell Length	Internal Diameter	To Suit Cable Diameter
	Two Core	Three Core	Four Core			
	mm ²	mm ²	mm ²	mm	mm	mm
SJK1	1.5 – 4.0	1.5 – 4.0	1.5 – 2.5	190	36	14.0 – 22.0
SJK2	6.0 – 25.0	6.0 – 10.0	4.0 – 10.0	260	47	14.0 – 30.0
SJK3	35 – 50	16 – 25	16	360	55	20.0 – 37.0
SJK4	70 – 95	35 – 50	25 – 50	400	70	25.0 – 42.0
SJK5	120 – 185	70 – 120	70 – 120	530	100	33.0 – 55.0
SJK6	240 – 300	150 – 240	150 – 185	705	125	45.0 – 74.0
SJK7	400	300 – 400	240 – 400	900	150	50.0 – 90.0
Through Crimps						
Anixter Number	To Suit Conductor Size mm ²			Anixter Number	To Suit Conductor Size mm ²	
LUGTC10	10			LUGTC120	120	
LUGTC16	16			LUGTC150	150	
LUGTC25	25			LUGTC185	185	
LUGTC35	35			LUGTC240	240	
LUGTC50	50			LUGTC300	300	
LUGTC70	70			LUGTC400	400	
LUGTC95	95					

Straight Joint Kits for Three Core Medium Voltage Cables

- Quick and easy to use, with no requirement for application of heat to effect the joint (no open flames).
- No special tools required.
- Long term reliability.
- Provides excellent insulating levels.
- One part joint body.
- UV stabilised.
- High track resistance and built in permittivity stress controlling material.
- Non-flammable (LSOH) and fungus resistant.
- Manufactured from silicone (hydrophobic material).
- Terminations recover to a uniform wall thickness.
- Joint kit includes copper mesh tape, mastic, Elaspred joint, 2 x "C" spanners, EPR tape, 2 x constant force springs, 2 x sealing pads, silicone grease, 7 litres of resin and instructions.

Straight Joint Kit Details

Anixter Part Number	To Suit Three Core 11 kV Polymeric Cable
SJK-EJ-3XA-A-12	95 – 185sqmm
SJK-EJ-3XA-B-12	185 – 300sqmm
SJK-EJ-3XA-C-12	400sqmm

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Cold Shrink Outdoor Terminations for Three Core Medium Voltage Cables

- These Prysmian manufactured cold shrink outdoor terminations are quick and easy to install, with no requirement for application of heat to effect the termination (no open flames).
- Long term reliability.
- Provides excellent insulating levels and lower surface stress.
- UV stabilised.
- High track resistance and built in permittivity stress controlling material.
- Non-flammable (LSOH) and fungus resistant.
- Manufactured from silicone (hydrophobic material).
- Terminations recover to a uniform wall thickness.
- Terminations have moulded-in rain sheds.
- Kit includes 3 x sets of terminations, 1 x jointing instruction, 1 x constant force spring, 1 x PVC tape, 1 x silicone mastic, 3 x silicone tape, 3 x silicone grease, 1 x PST tube, 1 x breakout boot and 1 x scotch tape.

Straight Joint Kit Details

Anixter Number	To Suit Three Core 11 kV Polymeric Cable
TERM-COT-3X-A-12	35 – 70sqmm
TERM-COT-3X-B-12	95 – 185sqmm
TERM-COT-3X-C-12	240 – 300sqmm
TERM-COT-3X-D-12	400sqmm

CMP Gland Selection Chart

XLPE OR EPR/SWA/PVC CABLESTO BS5467 : 1997 With Extruded Bedding and Circular/Shaped Stranded Copper Conductors 600/1000V										
XLPE / EPR										
CABLE CONSTRUCTION				CABLE GLAND/CLEATTYPE & SIZE						
Conductor C.S.A. (mm ²)	Number of Cores	Nominal Diameters (mm)		Indoor	Outdoor	Outdoor	Outdoor	Uncleat	Single Bolt Clamp	Two Bolt Clamp
		Under Armour	Overall	BW Gland	CW Gland	E1W Gland	E1FW Gland			
				BW Kit	CW Kit					
1.5	2	8.1	12.5	20S	20S/16	20S/16	20S/16	0916	1013	-
	3	8.6	13.0							
	4	9.4	14.0							
	7	11.3	15.9		20S	20S	20S		1316	
	12	14.7	20.2	25	25	25	25	1522	1923	
	19	17.5	23.2					2129	2327	
	27	21.3	27.9	32	32	32	32		2732	
	37	23.8	30.6					2839		
2.5	2	9.0	13.6	20S	20S	20S	20S	0916	1316	-
	3	9.5	14.1							
	4	10.4	15.0							
	7	12.5	17.1	20	20	20	20	1522	1619	
	12	16.7	22.4	25	25	25	25	2129	1923	
	19	20.0	26.6	32	32	32	32		2327	
	27	23.9	30.7					2839	2732	
	37	27.0	33.8	40	40	40	40		3238	
4	2	10.1	14.7	20S	20S	20S	20S	0916	1316	-
	3	10.7	15.3							
	4	11.8	16.4							
	7	14.2	19.7	20	20	20	20	1522	1619	
	12	19.3	25.7	25	25	25	25		1923	
	19	22.7	29.3					2129	2327	
	27	27.4	34.4	32	32	32	32	2839	2732	
	37	31.2	39.2	40	40	40	40		3238	
							3852	3846		
6	2	11.3	15.9	20S	20S	20S	20S	0916	1316	-
	3	12.0	16.6	20	20	20	20	1522	1619	
	4	13.2	18.7							
10	2	13.2	18.0	20	20	20	20	1522	1619	-
	3	14.0	19.5	25	25	25	25		1923	
	4	15.6	21.1							
16	2	14.5	20.0	25	25	25	25	1522	1923	-
	3	15.5	21.2							
	4	17.2	22.9							

Please note that the above chart is a guide, and that cable OD should be checked prior to gland selection.

CMP Gland Selection Chart

(continued)

XLPE OR EPR/SWA/PVC CABLESTO BS5467 : 1997 With Extruded Bedding and Circular/Shaped Stranded Copper Conductors 600/1000V											
XLPE / EPR				CABLE GLAND/CLEAT TYPE & SIZE							
Conductor C.S.A. (mm ²)	Number of Cores	Nominal Diameters (mm)		Indoor	Outdoor	Outdoor	Outdoor	Uniclear	Single Bolt Clamp	Two Bolt Clamp	
		Under Armour	Overall	BW Gland BW Kit	CW Gland CW Kit	E1W Gland	E1FW Gland				
25	2	18.4	24.1	25	25	25	25	2129	2327	-	
	3	20.1	26.7	32	32	32	32				
	4	22.3	28.9								2732
35	2	21.3	27.9	32	32	32	32	2129	2732	-	
	3	22.8	29.6								2839
	4	25.3	32.1								3238
50	2	19.0	25.8	25	25	25	25	2129	2327	-	
	3	21.7	28.5	32	32	32	32				
	4	25.0	32.0								2839
70	2	22.0	29.0	32	32	32	32	2839	2732	-	
	3	25.2	32.2								
	4	29.5	37.7	40	40	40	40				3238
95	2	25.1	33.1	32	32	32	32	2839	3238	-	
	3	28.8	37.0	40	40	40	40				
	4	33.3	41.7	50S	50S	50S	50S				3852
120	2	27.9	36.1	40	40	40	40	2839	3238	-	
	3	32.0	40.4								3852
	4	37.5	47.1	50S	50	50	50				-
150	2	30.9	39.3	40	40	40	40	3852	3846	-	
	3	35.9	45.5	50S	50S	50S	50S				
	4	41.6	51.4	50	50	50	50				-
185	2	34.9	44.7	50S	50S	50S	50S	3852	3846	-	
	3	40.0	49.8	50	50	50	50				
	4	46.4	56.6	63S	63S	63S	63S				-
240	2	39.0	49.0	50	50	50	50	3852	-	4651	
	3	44.9	55.1	63S	63S	63S	63S				
	4	52.6	63.0	63	63	63	63				-
300	2	43.3	53.5	50	63S	63S	63S	-	-	5157	
	3	49.8	60.2	63S	63	63	63				
	4	58.0	68.8	75S	75S	75S	75S				-
400	2	48.4	59.0	63S	63S	63S	63S	-	-	5764	
	3	55.8	66.6	63	75S	75S	75S				
	4	65.4	78.1	75	75	75	75				-

Note: For Cables up to 35mm sq, Conductors are Circular Stranded and for cables 50mm sq and over, conductors are Shaped Stranded

Please note that the above chart is a guide, and that cable OD should be checked prior to gland selection.

CMP Gland Selection Chart

SELECTOR CHART FOR GSWB OR BWB BRAID ARMOUR CABLE TO BS6883: 1999 MULTIPAIR INSTRUMENTATION CABLE RATED 150/250V														
XLPE														
CABLE CONSTRUCTION				CABLE GLAND/CLEAT TYPE & SIZE										
Conductor C.S.A. (mm ²)	Number of Pairs	Configuration	Nominal Diameters (mm)		Outdoor	Outdoor	Outdoor	Outdoor	Uniclear	Single Bolt Clamp	Two Bolt Clamp			
			Under Armour	Overall	CX or C2K Gland	E1X or E1FX Gland	T3CDS Gland	PX2IX Gland						
0.75	1 Pr	Individually Screened Pairs	7.5	11.5	20S/16	20S/16	20S/16	20S/16	916	1013	-			
	3 Pr		14.2	18.6	25	25	25	25				1522	1619	
	7 Pr		19.0	24.0								2129	2327	
	12 Pr		25.5	30.7	32	32	32	32				2839	2732	
	20 Pr		32.5	39.1	50S	50S	50S	50S				3852	3846	
	27 Pr		36.9	44.1										
	37 Pr		41.8	49.2	50	50	50	50					-	4651
0.75	3 Pr	Collectively Screened Pairs	12.9	17.3	20	20	20	20	1522	1619	-			
	7 Pr		17.0	21.7	25	25	25	25				1923		
	12 Pr		22.6	27.6	32	32	32	32				2129	2732	
	20 Pr		28.2	34.7	40	40	40	40				2839	3238	
	27 Pr		32.0	38.8									3846	
	37 Pr		36.1	43.3	50S	50S	50S	50S				3852		
1.0	1 Pr	Individually Screened Pairs	7.9	11.9	20S/16	20S/16	20S/16	20S/16	916	1013	-			
	3 Pr		15.2	19.7	25	25	25	25				1522	1923	
	7 Pr		20.2	25.1	32	32	32	32				2129	2327	
	12 Pr		27.5	33.8	40	40	40	40				2839	3238	
	20 Pr		34.7	41.6	50S	50S	50S	50S				3852	3846	
	27 Pr		39.4	46.7	50	50	50	50					-	4651
	37 Pr		44.8	52.6	63S	63S	63S	63S				-		5157
1.0	3 Pr	Collectively Screened Pairs	13.6	18.0	20	20	20	20	1522	1619	-			
	7 Pr		18.0	23.0	25	25	25	25				2129	1923	
	12 Pr		24.0	29.2	32	32	32	32				2839	2732	
	20 Pr		29.9	36.7	40	40	40	40					3238	
	27 Pr		34.3	41.2	50S	50S	50S	50S				3852	3846	
	37 Pr		38.6	46.0	50	50	50	50						4651

Please note that the above chart is a guide, and that cable OD should be checked prior to gland selection.

CMP Gland Selection Chart

(continued)

SELECTOR CHART FOR GSWB OR BWB BRAID ARMOUR CABLE TO BS6883: 1999 MULTIPAIR INSTRUMENTATION CABLE RATED 150/250V												
XLPE												
CABLE CONSTRUCTION					CABLE GLAND/CLEAT TYPE & SIZE							
Conductor C.S.A. (mm ²)	Number of Pairs	Configuration	Nominal Diameters (mm)		Outdoor	Outdoor	Outdoor	Outdoor	Uncleat	Single Bolt Clamp	Two Bolt Clamp	
			Under Armour	Overall	CX or C2K Gland	E1X or E1FX Gland	T3CDS Gland	PX2KX Gland				
0.75	1 Tr	Individually Screened Triples	8.1	12.2	20/16	20/16	20/16	20/16	916	1013	-	
	3 Tr		15.9	21.0	25	25	25	25	1522	1923		
	7 Tr		21.4	26.4	32	32	32	32	2129	2327		
	12 Tr		28.6	35.1	40	40	40	40	2839	3238		
0.75	3 Tr	Collectively Screened Triples	14.4	18.8	25	25	25	25	1522	1619	-	
	7 Tr		18.8	23.8					2129	2327		
	12 Tr		25.3	30.9					2839	2732		
1.0	1 Tr	Individually Screened Triples	8.8	12.8	20S	20S	20S	20S	916	1013	-	
	3 Tr		16.9	21.7	25	25	25	25	1522	1923		
	7 Tr		22.8	27.8	32	32	32	32	2129	2732		
	12 Tr		30.9	37.3	40	40	40	40	2839	3238		
1.0	3 Tr	Collectively Screened Triples	15.2	19.8	25	25	25	25	1522	1923	-	
	7 Tr		20.2	25.3					2129	2327		
	12 Tr		26.9	33.6					2839	3238		
0.75	1 Qd	Individually Screened Quads	9.4	13.4	20S	20S	20S	20S	916	1316	-	
	3 Qds		18.2	23.0	25	25	25	25	2129	1923		
	7 Qds		25.0	29.8	32	32	32	32	2839	2732		
1.0	1 Qd	Collectively Screened Quads	9.9	13.9	20S	20S	20S	20S	916	1316	-	
	3 Qds		19.6	24.6	25	25	25	25	2129	2327		
	7 Qds		26.7	31.9	40	40	40	40	2839	2732		

Please note that the above chart is a guide, and that cable OD should be checked prior to gland selection.