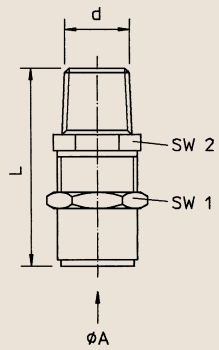
**Cable Glands
for Unarmoured Cables
Series FG**

- Explosion protection to
  – CENELEC
  – IEC
- Can be used in Zone 1 and Zone 2
- Version EEx d IIC
- Sealing of outer cable sheath
- Material:
  Galvanized steel,
  other on request

Selection table

Design	Dimensions [mm]					**Ordering code**	Weight
	Entry thread Outer sheath d	Cable diameter ∅ A min. – max.	L	SW_1	SW_2		[kg]
	1/2" NPT	6 – 12	54	30	27	**FG1 – A1**	0,085
			54	30	27	**FG1 – B1**	
	3/4" NPT	11 – 17	55	35	32	**FG2 – B2**	0,12
			55	35	32	**FG2 – C2**	
	1" NPT	17 – 23	62	42	40	**FG3 – A3**	0,195
			62	42	40	**FG3 – B3**	

Technical data

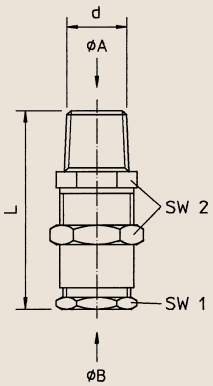
Explosion protection	EEx d II C
Test certificate	INIEX 85.103.428 other certificates: ISSeP (Belgium), FTZU (Czech Republic), BKI (Hungary)
Material	Steel, galvanized, other materials on request
Degree of protection	IP 55
Entry thread	Standard: NPT 1/2", 3/4", 1" Special: ISO metric on request

Zone 1 and Zone 2

**Cable Glands
for Armoured Cables
Series FGA**

- Explosion protection to
  – CENELEC
  – IEC
- Can be used in Zone 1 and Zone 2
- Version EEx d IIC
- Sealing of outer cable sheath
- Material:
  Galvanized steel,
  other on request

Selection table

Design	Dimensions [mm]						**Ordering code**	Weight
	Entry thread Inner sheath d	Cable diameter Outer sheath ∅ A min. – max.	∅ B min. – max.	L	SW_1	SW_2		[kg]
	½" NPT	6 – 12	8 – 17	80	27	30	**FGA1 - A1 - A2P**	0,19
				80	27	30	**FGA1 - A1 - B2P**	
				80	27	30	**FGA1 - B1 - C2P**	
	¾" NPT	11 – 17	17 – 25	80	32	35	**FGA2 - B2 - A3P**	0,26
				80	32	35	**FGA2 - C2 - B3P**	
				80	32	35	**FGA2 - C2 - C3P**	
	1" NPT	17 – 23	23 – 32	90	40	42	**FGA3 - A3 - A4P**	0,42
				90	40	42	**FGA3 - B3 - B4P**	
				90	40	42	**FGA3 - B3 - C4P**	

Technical data

Explosion protection	EEx d II C
Test certificate	INIEX 85.103.428 other certificates: ISSeP (Belgium), FTZU (Czech Republic), BKI (Hungary)
Material	Steel, galvanized; other material on request
Degree of protection	IP 55
Entry thread	Standard: NPT ½", ¾", 1" Special: ISO metric on request

STAHL

Zone 1 and Zone 2

**Cable Glands
for All Types of Cable,
Series EMD**

- Explosion protection to
  – CENELEC
  – IEC
- Can be used in all Zones
- Suitable for all gas groups
- For EEx d and EEx e enclosures
- Version in brass, stainless steel or galvanized steel
- Suitable for:
  – Unarmoured cable
  – Steel braid armoured cable
  – Steel band armoured cable
  – Lead sheath armoured cable

STAHL

The series EMD cable glands is an universal type. It can be used in all Zones and with all gas groups. They are available in stainless or galvanized steel, also EEx e and EEx d.
The standard DIN 46 320 for Pg threads will be withdrawn in December 1999. Cable glands with Pg threads are available on request.

Selection table

Dimensions [mm] Entry thread B	Cable diameter (max.)	Type (see Dimensions)	Ordering code
M16	12	S	**EMD□ - S□□ - M16**
M20	12	S	**EMD□ - S□□ - M20**
M20	14	A	**EMD□ - A□□ - M20**
M25	16	A	**EMD□ - A□□ - M25**
M32	23	B	**EMD□ - B□□ - M32**
1/2" NPT	12	S	**EMD□ - S□□ - 1/2" NPT**
1/2" NPT	14	A	**EMD□ - A□□ - 1/2" NPT**
3/4" NPT	16	A	**EMD□ - A□□ - 3/4" NPT**
1" NPT	23	B	**EMD□ - B□□ - 1" NPT**

Add. to ordering code:

Material:

brass	B
stainless steel	S
galvanized steel	G

Bush:

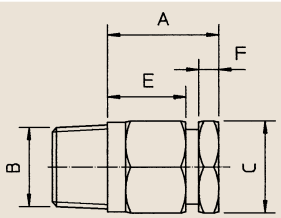
Thread type [mm] min. - max.	Cable diameter	
EMD. – A3	2 – 3	**03**
EMD. – S06	4 – 6	**06**
EMD. – A6	4 – 6	**06**
EMD. – S09	6 – 9	**09**
EMD. – A9	6 – 9	**09**
EMD. – S12	9 – 12	**12**
EMD. – A12	9 – 12	**12**
EMD. – A14	11 – 14	**14**
EMD. – A16	13 – 16	**16**
EMD. – B17	14 – 17	**17**
EMD. – B19	16 – 19	**19**
EMD. – B21	18 – 21	**21**
EMD. – B23	20 – 23	**23**

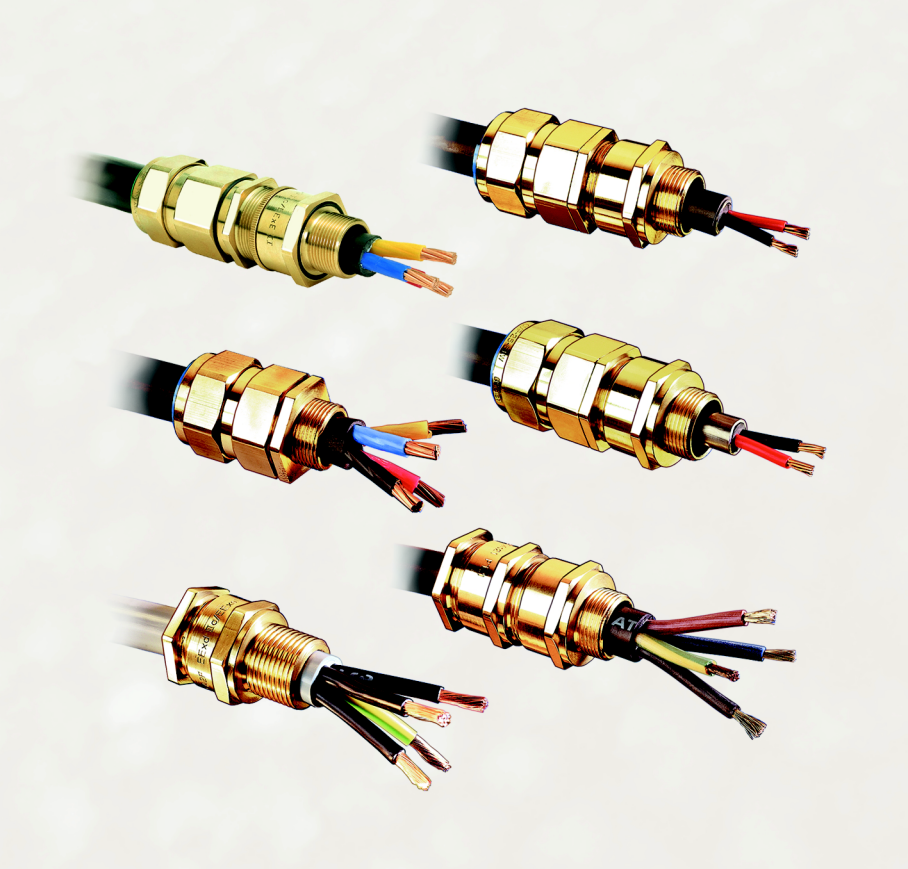
Technical data

Explosion protection	EEx de IIC
Test certificate	KEMA No. Ex-93.C-6952
Degree of protection	IP 65 IP 67 with additional polyamide sealing ring
Material	
Thread	brass, stainless steel, galvanized steel
Sealing ring	brass, galvanized steel
Bush	size A and B: neoprene size S: silicon
IP 67 sealing ring	polyamide

Dimensions [mm]

	A min.	A max.	B	C	E	F
EMD. – S.. – ..	38	42	see	24	28	4,9
EMD. – A.. – ..	42,5	46,5	selection	30,8	33	4,9
EMD. – B.. – ..	48,5	53,1	table	38	39,1	6,5





Cable Glands EEx d, EEx e

- Explosion protecion to
  – CENELEC
  – IEC
- Can be used in Zone 1 and Zone 2
- EEx e, EEx d and non-Ex versions
- Versions for unarmoured, steel band, single wire braid and aluminium band armour
- Degree of protection max. IP 66
- Metric, imperial and NPT inlet threads available

These cable glands are particularly suited to armoured cables used mainly in areas where British Standards apply. The CMP-manufactured cable glands recently added to the R. STAHL program comply with British Standards and are made with tolerances such that they can be matched exactly to the relevant cable construction (see cut-away illustration). In addition to the normal sealing of the cable sheath, secure clamping of the armouring is essential since this armouring is used, not only for mechanical protecion, but also contributes to the electrical protection. If the armouring becomes “live” it works as a protection or earthing conductor and must, therefore, be connected reliably to the protective conductor system via the cable gland. These cable glands are available in standard industrial or explosion protected designs for “Ex” equipment in both “increased safety” and “flameproof” enclosures.
The standard DIN 46 320 for Pg threads will be withdrawn in December 1999. Cable glands with Pg threads are available on request.

Zone 1 and Zone 2

Technical data

Construction	BS 6121: 1989
Explosion protection	EEx e-Series: EEx e II EEx d-Series: EEx d IIC * EEx de-Series: EEx d IIC/EEx e II * up to maximum 2 dm^3
Test certificate	EEx e II: BAS No. 87.B.3413 U EEx d IIC: BAS No. 87.B.1412 U EEx d IIC/EEx e II: BAS No. 94.C.1293 U
Material	Brass (Type CY: aluminium) other material on request **Note:** brass cable glands in aluminium housings cause contact corrosion. Take care!

Degree of protection

Gland type	Entry thread without seal	Entry thread with seal	PVC shroud and entry thread without seal	PVC shroud and entry thread with seal
A2, D1W, E1W, E2W, E1X, A2F, D1FW, E1FW, E2FW, E1FX, P2k CW, CX	IP 54	IP 66	IP 54	IP 66

Entry thread

Standard: metric; on request: Imperial; NPT

Entry thread table comparisons

Nominal size	Entry thread metric	Imperial	NPT
16	M16 x 1,5	5/8"	1/2"
20/16	M20 x 1,5	3/4"	–
20S	M20 x 1,5	3/4"	1/2 or 3/4"
20	M20 x 1,5	3/4"	1/2 or 3/4"
25	M25 x 1,5	1"	3/4 or 1"
32	M32 x 1,5	1 1/4"	1" or 1 1/4"
40	M40 x 1,5	1 1/2"	1 1/4" or 1 1/2"
50S	M50 x 1,5	2"	1 1/2"
50	M50 x 1,5	2"	2"
63S	M63 x 1,5	2 1/2"	2"
63	M63 x 1,5	2 1/2"	2 1/2"
75S	M75 x 1,5	3"	2 1/2"
75	M75 x 1,5	3"	3"
90	M90 x 2	3 1/2"	3"

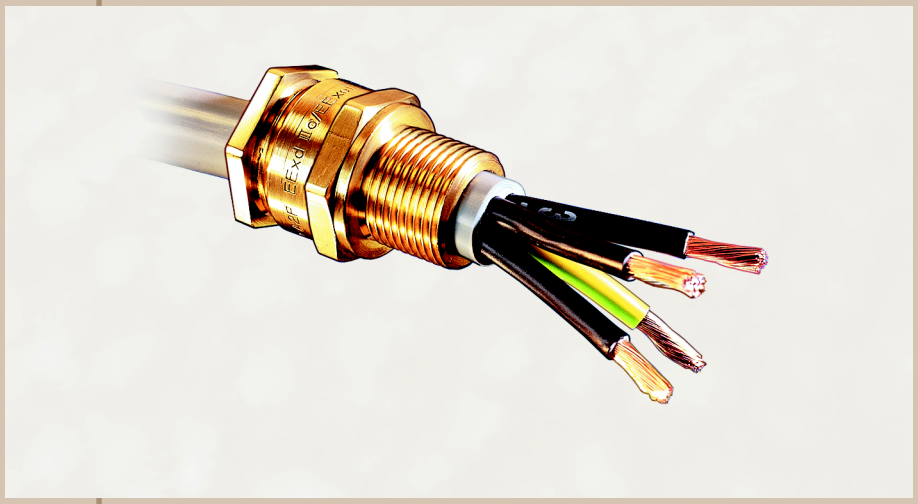
Type coding

Cable gland		Un-armoured	Metal armoured DSTA	SWA	Wire braid	Aluminium band ASA	Aluminium band AWA
Seal	Outer sheath	A2	A4	CW	CX	CY	CW
	Inner sheath	–	–	D1W	–	–	–
	Outer + Inner sheath	–	–	E1W	E1X	E1Y	E1W
	Outer + lead sheath	–	–	E2W	E2X	E2Y	E2W
Additional marking		EEx e-thread: e					

Gland selection

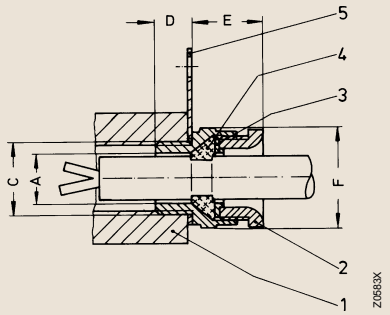
1) Specify conditions of use, i.e. industrial, Ex e, Ex d and environmental conditions.
2) Specify cable external diameter.
3) Specify cable under-armour diameter, where applicable.
4) Specify type of armour and thickness.
5) Specify accessories, where applicable.
6) Where dimensions do not fall within those specified in our catalogue, please contact STAHL.

Cable Glands
for Unarmoured Cables, Series A2



Cable Glands
for Unarmoured Cables
Series A2

- Sealing of outer cable sheath
- Versions:
  EEx d IIC / EEx e II
  Non-Ex



1. Associated enclosure wall
2. Compression nut
3. Skid washer
4. Inner neoprene seal
5. Earth tag, if required

Selection table

Dimensions [mm]						Ordering code		Weight
Entry thread	Cable diameter		Length of thread			Cable gland	PVC-shroud	
C	A		D	E	F			
	min.	max.						[kg]
M20 x 1,5	3,1	8,6	15	23,3	24,4	**CMP – 20/16 –** ▭	**PVC 01**	0,065
M20 x 1,5	6,1	11,6	15 (10) *	20,5	26,5	**CMP – 20s –** ▭	**PVC 03**	0,059
M20 x 1,5	6,5	13,9	15 (10) *	20,8	30,0	**CMP – 20 –** ▭	**PVC 05**	0,065
M25 x 1,5	11,1	19,9	15 (10) *	27,7	39,9	**CMP – 25 –** ▭	**PVC 08**	0,151
M32 x 1,5	17,0	26,2	15 (10) *	27,5	45,5	**CMP – 32 –** ▭	**PVC 10**	0,143
M40 x 1,5	22,0	32,1	15	28,5	55,4	**CMP – 40 –** ▭	**PVC 12**	0,181
M50 x 1,5	29,5	38,1	15	28,0	61,0	**CMP – 50s –** ▭	**PVC 14**	0,243
M50 x 1,5	35,6	44,0	15	30,8	66,5	**CMP – 50 –** ▭	**PVC 17**	0,248
M63 x 1,5	40,1	49,9	15	30,5	77,6	**CMP – 63s –** ▭	**PVC 20**	0,368
M63 x 1,5	47,2	55,9	15	29,6	83,2	**CMP – 63 –** ▭	**PVC 22**	0,358
M75 x 1,5	52,8	61,9	15	26,9	88,7	**CMP – 75s –** ▭	**PVC 24**	0,437
M75 x 1,5	59,1	67,9	15	29,6	94,2	**CMP – 75 –** ▭	**PVC 26**	0,397
M90 x 2,0	66,6	79,3	15	50,0	120,7	**CMP – 90 –** ▭	**PVC 31**	1,416

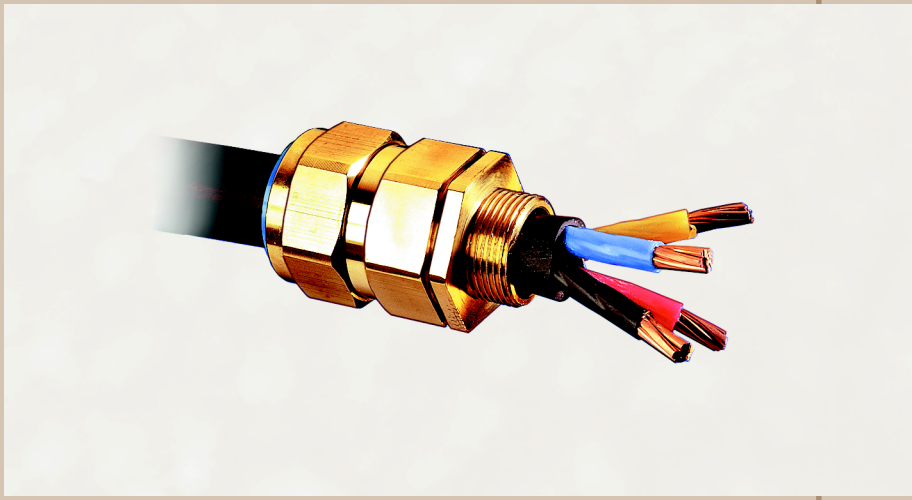
Add. to ordering code:

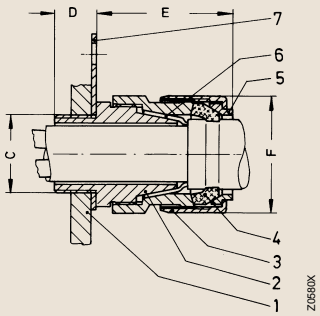
EEx d IIC/EEx e II-Series	**CMP –** ▭ **–**	**A2F**
Non-Ex-Series	**CMP –** ▭ **–**	**A2**

Gland entry thread [C] with Pg, Imperial, NPT see table comparison - technical data page 13/15.
– text – PVC-shroud – description see page 13/25.
* (10) Length of thread industrial gland

Cable Glands for SWA Cable with Moisture-Proof Seal Series CW

- Sealing of outer cable sheath
- Versions:
  EEx e II
  Non-Ex





1. Associated enclosure wall
2. Diamond knurl
3. Swaged end producing completely captive armour lock assembly
4. Outer neoprene seal
5. Tapered ferrule
6. SWA cable
7. Earth tag if required

Selection table

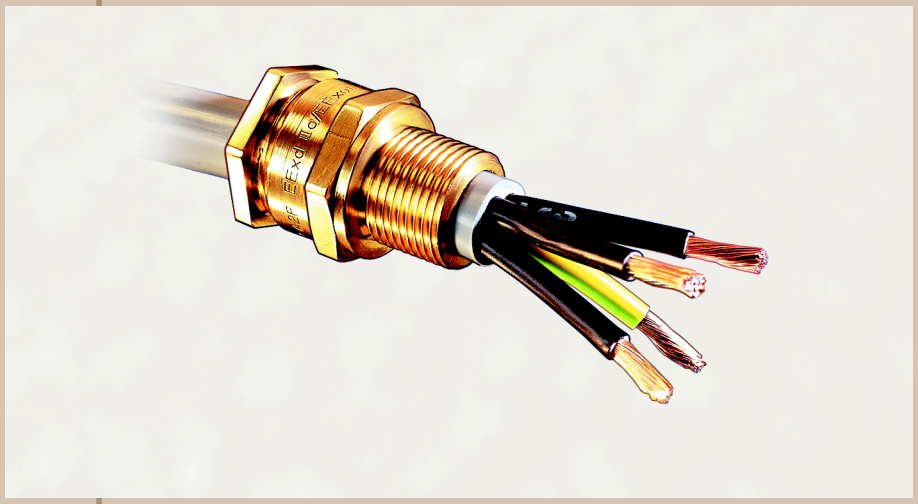
Dimensions [mm]							Armour wire thickness	Ordering code		Weight
Entry thread	Cable diameter Inner sheath	Outer sheath						Cable gland	PVC-shroud	
C	max.	min.	max.	D	E	F	[mm]			[kg]
M20 x 1,5	8,6	6,0	13,4	15	39,5	24,4	0,90	**CMP – 20/16 –** ☐	**PVC 02**	0,100
M20 x 1,5	11,6	9,5	15,9	15(10)*	43,0	26,6	0,90 – 1,25	**CMP – 20s –** ☐	**PVC 04**	0,104
M20 x 1,5	13,9	12,5	20,9	15(10)*	44,5	33,3	0,90 – 1,25	**CMP – 20 –** ☐	**PVC 06**	0,157
M25 x 1,5	19,9	17,0	26,2	15(10)*	49,0	40,5	1,25 – 1,60	**CMP – 25 –** ☐	**PVC 09**	0,206
M32 x 1,5	26,2	22,9	33,9	15(10)*	49,5	51,0	1,60 – 2,00	**CMP – 32 –** ☐	**PVC 11**	0,312
M40 x 1,5	32,1	26,0	40,4	15	53,0	61,0	1,60 – 2,00	**CMP – 40 –** ☐	**PVC 15**	0,477
M50 x 1,5	38,1	35,0	46,7	15	52,5	66,5	2,00 – 2,50	**CMP – 50s –** ☐	**PVC 18**	0,605
M50 x 1,5	44,0	38,0	53,1	15	52,5	77,7	2,00 – 2,50	**CMP – 50 –** ☐	**PVC 21**	0,741
M63 x 1,5	50,0	45,6	59,4	15	67,0	83,2	2,50	**CMP – 63s –** ☐	**PVC 23**	1,406
M63 x 1,5	55,9	54,6	65,9	15	67,0	88,7	2,50	**CMP – 63 –** ☐	**PVC 25**	1,124
M75 x 1,5	61,9	57,0	72,1	15	75,5	101,6	2,50	**CMP – 75s –** ☐	**PVC 28**	1,819
M75 x 1,5	67,9	60,4	78,5	15	74,0	111,1	2,50 – 3,15	**CMP – 75 –** ☐	**PVC 30**	1,976
M90 x 2	79,3	69,2	90,4	15	90,0	128,6	3,15	**CMP – 90 –** ☐	**PVC 32**	3,342

Add. to ordering code:

EEx e II-Series	**CMP –** ☐ **– CWe**
Non-Ex-Series	**CMP –** ☐ **– CW**

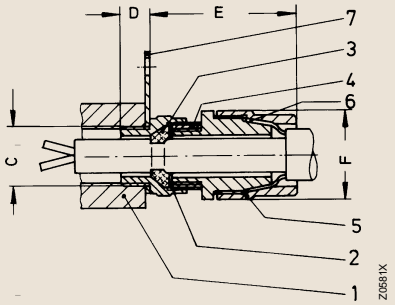
Gland entry thread [C] with Pg, Imperial, NPT see table comparison - technical data page 13/15.
– text – PVC-shroud – description see page 13/25.
* (10) Length of thread industrial gland
** not possible for EEx e gland

Cable Glands
for SWA Cable with Moisture-Proof Seal, Series D1W



Cable Glands for SWA Cable with Moisture-Proof Seal Series D1W

- Sealing of inner cable sheath, outer cable sheath not sealed
- Only for dry areas
- Versions:
  EEx d IIC
  Non-Ex



1. Associated enclosure wall
2. Skid washer
3. Skid washer
4. Screwed bush
5. Armour clamp
6. Single wire armour cable
7. Earth tag if required

Selection table

Dimensions [mm]							Armour wire thickness	Ordering code		Weight
Entry thread	Cable diameter Inner sheath		Outer sheath					Cable gland	PVC-shroud	
C	min.	max.	max.	D	E	F	[mm]			[kg]
M20 x 1,5	3,1	8,6	13,4	15	46,3	24,4	0,90	**CMP – 20/16 –** ▭	**PVC 02**	0,105
M20 x 1,5	6,1	11,6	15,9	15(10)*	47,0	26,6	0,90 – 1,25	**CMP – 20s –** ▭	**PVC 04**	0,128
M20 x 1,5	6,5	13,9	20,9	15(10)*	51,8	33,3	0,90 – 1,25	**CMP – 20 –** ▭	**PVC 06**	0,194
M25 x 1,5	11,1	19,9	26,2	15(10)*	57,7	39,9	1,25 – 1,60	**CMP – 25 –** ▭	**PVC 09**	0,290
M32 x 1,5	17,0	26,2	33,9	15(10)*	57,5	51,0	1,60 – 2,00	**CMP – 32 –** ▭	**PVC 11**	0,377
M40 x 1,5	22,0	32,1	40,4	15	68,0	56,3	1,60 – 2,00	**CMP – 40 –** ▭	**PVC 15**	0,510
M50 x 1,5	29,5	38,1	46,7	15	65,5	66,5	2,00 – 2,50	**CMP – 50s –** ▭	**PVC 18**	0,686
M50 x 1,5	35,6	44,0	53,1	15	61,9	77,7	2,00 – 2,50	**CMP – 50 –** ▭	**PVC 21**	0,815
M63 x 1,5	40,1	50,0	59,4	15	80,6	83,2	2,50	**CMP – 63s –** ▭	**PVC 23**	1,500
M63 x 1,5	47,2	55,9	65,9	15	81,3	88,7	2,50	**CMP – 63 –** ▭	**PVC 25**	1,256
M75 x 1,5	52,8	61,9	72,1	15	86,8	101,6	2,50	**CMP – 75s –** ▭	**PVC 28**	1,809
M75 x 1,5	59,1	67,9	78,5	15	87,4	111,1	2,50 – 3,15	**CMP – 75 –** ▭	**PVC 30**	2,047

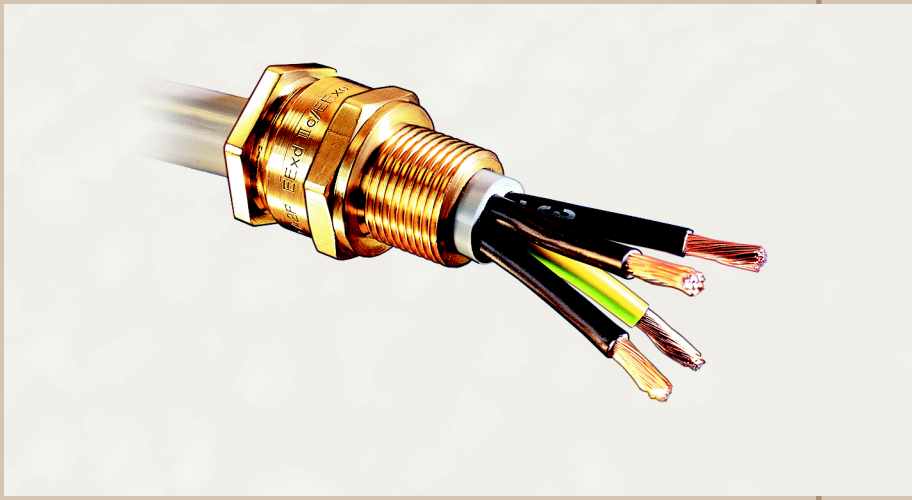
Add. to ordering code:

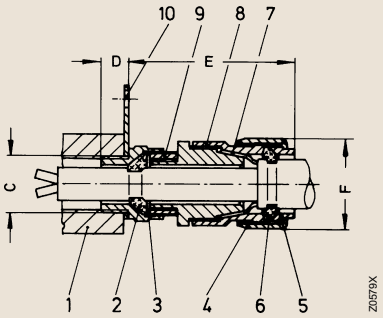
EEx d IIC-Series	**CMP –** ▭ **– D1FW**
Non-Ex-Series	**CMP –** ▭ **– D1W**

Gland entry thread [C] with Pg, Imperial, NPT see table comparison - technical data page 13/15.
– text – PVC-shroud – description see page 13/25.
* (10) Length of thread industrial gland

Cable Glands for SWA Cable with Moisture-Proof Seal Series E1W

- Sealing of inner and outer cable sheath
- Versions:
  EEx d IIC / EEx e II
  Non-Ex





1. Associated enclosure wall
2. Inner neoprene seal
3. Skid washer
4. Swaged end producing completely captive armour lock assembly
5. Tapered ferrule
6. Outer neoprene seal
7. Single wire armour cable
8. Armour clamp
9. Screwed bush
10. Earth tag, if required

Selection table

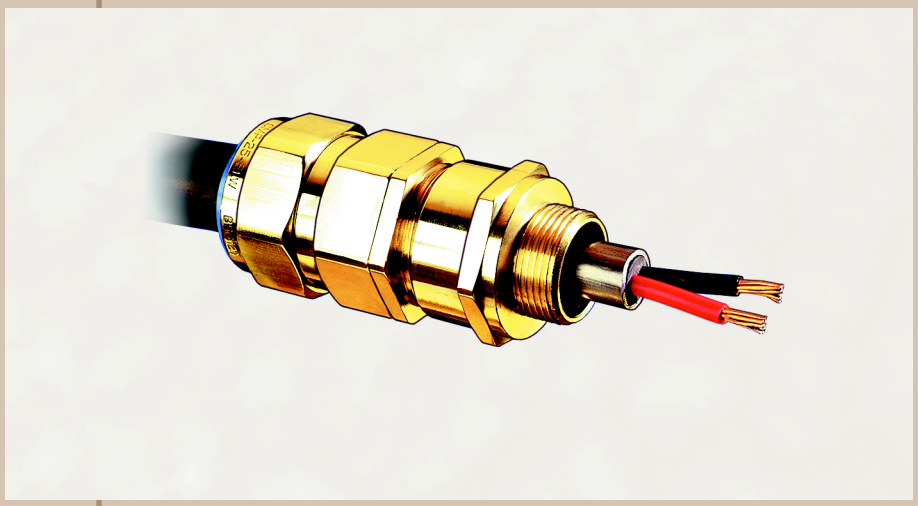
Dimensions [mm]								Armour wire thickness	**Ordering code**		Weight
Entry thread	Cable diameter Inner sheath		Outer sheath						Cable gland	PVC-shroud	
C	min.	max.	min.	max.	D	E	F	[mm]			[kg]
M20 x 1,5	3,1	8,6	6,0	13,4	15	57,0	24,4	0,90	**CMP – 20/16 –** ▭	**PVC 02**	0,135
M20 x 1,5	6,1	11,6	9,5	15,9	15(10)*	58,5	26,6	0,90 – 1,25	**CMP – 20s –** ▭	**PVC 04**	0,141
M20 x 1,5	6,5	13,9	13,5	20,9	15(10)*	60,5	33,3	0,90 – 1,25	**CMP – 20 –** ▭	**PVC 06**	0,215
M25 x 1,5	11,1	19,9	19,0	26,2	15(10)*	67,5	40,5	1,25 – 1,60	**CMP – 25 –** ▭	**PVC 09**	0,311
M32 x 1,5	17,0	26,2	22,9	33,9	15(10)*	69,5	51,0	1,60 – 2,00	**CMP – 32 –** ▭	**PVC 11**	0,423
M40 x 1,5	22,0	32,1	26,0	40,4	15	78,0	61,0	1,60 – 2,00	**CMP – 40 –** ▭	**PVC 15**	0,649
M50 x 1,5	29,5	38,1	35,0	46,7	15	75,5	66,5	2,00 – 2,50	**CMP – 50s –** ▭	**PVC 18**	0,770
M50 x 1,5	35,6	44,0	38,0	53,1	15	80,5	77,7	2,00 – 2,50	**CMP – 50 –** ▭	**PVC 21**	0,948
M63 x 1,5	40,1	50,0	45,6	59,4	15	88,7	83,2	2,50	**CMP – 63s –** ▭	**PVC 23**	1,671
M63 x 1,5	47,2	55,9	54,6	65,9	15	88,7	88,7	2,50	**CMP – 63 –** ▭	**PVC 25**	1,415
M75 x 1,5	52,8	61,9	57,0	72,1	15	101,6	101,6	2,50	**CMP – 75s –** ▭	**PVC 28**	2,094
M75 x 1,5	59,1	67,9	60,4	78,5	15	111,6	111,1	2,50 – 3,15	**CMP – 75 –** ▭	**PVC 30**	2,301

Add. to ordering code:

EEx d IIC / EEx e-Series	**CMP –** ▭ **– E1FW**
Non-Ex-Series	**CMP –** ▭ **– E1W**

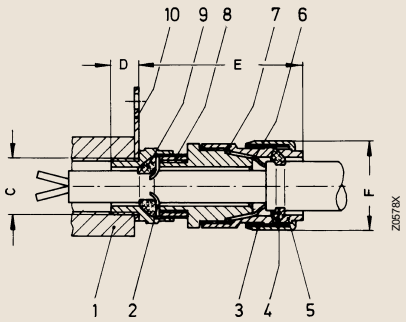
Gland entry thread [C] with Pg, Imperial, NPT see table comparison - technical data page 13/15.
– text – PVC-shroud – description see page 13/25.
* (10) Length of thread industrial gland

Cable Glands
for Lead Sheath SWA Cable with Inner and Outer Sheath Seal, Series E2W



Cable Glands
for Lead Sheath SWA Cable with Inner and Outer Sheath Seal Series E2W

- Sealing of lead sheath and outer sheath
- Versions:
  EEx d IIC / EEx e II
  Non-Ex



1. Associated enclosure wall
2. Metallic continuity diaphragm
3. Swaged end producing completely captive armour lock assembly
4. Outer neoprene seal
5. Tapered ferrule
6. Single wire armour cable
7. Armour clamp
8. Screwed bush
9. Inner neoprene seal
10. Earth tag, if required

Selection table

Dimensions [mm]								Wire braided thickness [mm]	Ordering code		Weight
Entry thread	Cable diameter Inner sheath		Outer sheath						Cable gland	PVC-shroud	
C	min.	max.	min.	max.	D	E	F	max.			[kg]
M20 x 1,5	3,1	8,6	6,0	13,4	15	57,0	24,4	0,90	**CMP – 20/16 –** ▭	**PVC 02**	0,135
M20 x 1,5	6,1	11,6	9,5	15,9	15(10)*	58,5	26,6	0,90 – 1,25	**CMP – 20s –** ▭	**PVC 04**	0,141
M20 x 1,5	6,5	13,9	12,5	20,9	15(10)*	60,5	33,3	0,90 – 1,25	**CMP – 20 –** ▭	**PVC 06**	0,215
M25 x 1,5	11,1	19,9	19,0	26,2	15(10)*	67,5	40,5	1,25 – 1,60	**CMP – 25 –** ▭	**PVC 09**	0,311
M32 x 1,5	17,0	26,2	22,9	33,9	15(10)*	69,5	51,0	1,60 – 2,00	**CMP – 32 –** ▭	**PVC 11**	0,423
M40 x 1,5	22,0	32,1	26,0	40,4	15	78,0	61,0	1,60 – 2,00	**CMP – 40 –** ▭	**PVC 15**	0,649
M50 x 1,5	29,5	38,1	35,0	46,7	15	75,5	66,5	2,00 – 2,50	**CMP – 50s –** ▭	**PVC 18**	0,770
M50 x 1,5	35,6	44,0	38,0	53,1	15	80,5	77,7	2,00 – 2,50	**CMP – 50 –** ▭	**PVC 21**	0,948
M63 x 1,5	40,1	50,0	45,6	59,4	15	88,7	83,2	2,50	**CMP – 63s –** ▭	**PVC 23**	1,671
M63 x 1,5	47,2	55,9	54,6	65,9	15	88,7	88,9	2,50	**CMP – 63 –** ▭	**PVC 25**	1,415
M75 x 1,5	52,8	61,9	57,0	72,1	15	101,6	101,6	2,50	**CMP – 75s –** ▭	**PVC 28**	2,094
M75 x 1,5	59,1	67,9	60,4	78,5	15	111,6	111,1	2,50 – 3,15	**CMP – 75 –** ▭	**PVC 30**	2,301

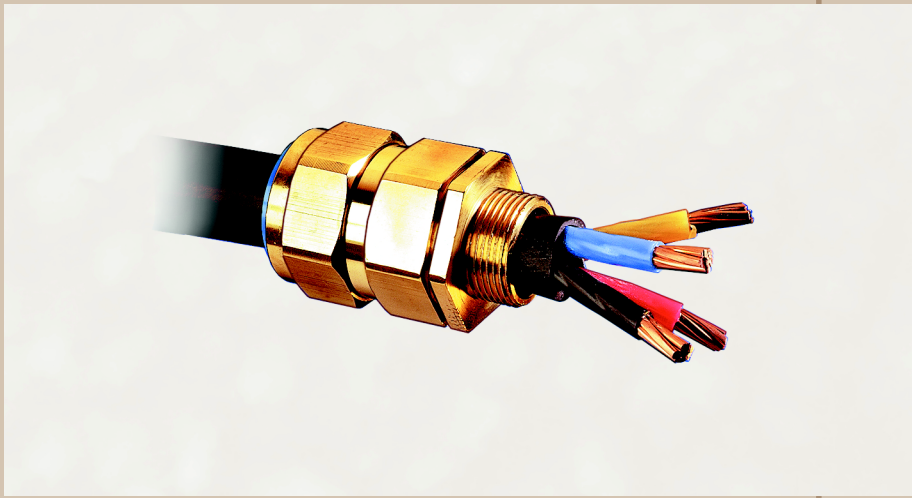
Add. to ordering code:

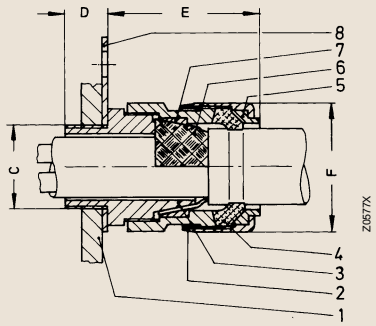
EEx d IIC/EEx e II-Series	**CMP –** ▭ **– E2FW**
Non-Ex-Series	**CMP –** ▭ **– E2W**

Gland entry thread [C] with Pg, Imperial, NPT see table comparison - technical data page 13/15.
– text – PVC-shroud – description see page 13/25.
* (10) Length of thread industrial gland

Cable Glands
for Wire-Braided Armour Cable
Series CX

- With neoprene seal to protect conductors against damage
- Versions:
  EEx e II
  Non-Ex





1. Associated enclosure wall
2. Swaged end producing completely captive armour lock assembly
3. Diamond knurl
4. Outer neoprene seal
5. Tapered ferrule
6. Wire braided cable
7. Armour clamp
8. Earth tag, if required

Selection table

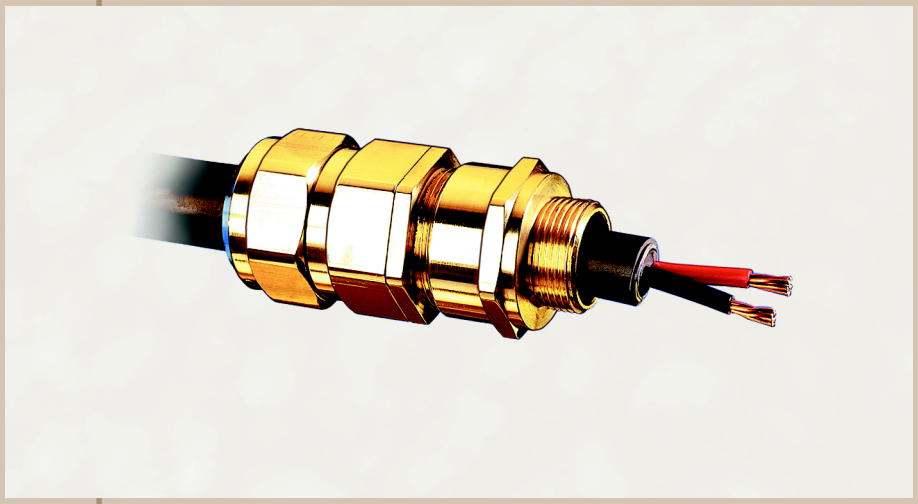
Dimensions [mm]							Wire braided thickness	Ordering code		Weight
Entry thread	Cable diameter Inner sheath	Outer sheath					[mm]	Cable gland	PVC-shroud	
C	max.	min.	max.	D	E	F	max.			[kg]
M20 x 1,5	8,6	6,0	13,4	15	39,5	24,4	0,85	**CMP – 20/16 – ▭**	**PVC 02**	0,108
M20 x 1,5	11,6	9,5	15,9	15(10)*	43,0	26,6	0,85	**CMP – 20s – ▭**	**PVC 04**	0,106
M20 x 1,5	13,9	12,5	20,9	15(10)*	44,5	33,3	0,90	**CMP – 20 – ▭**	**PVC 06**	0,154
M25 x 1,5	19,9	19,0	26,2	15(10)*	49,0	40,5	1,25	**CMP – 25 – ▭**	**PVC 09**	0,213
M32 x 1,5	26,2	22,9	33,9	15(10)*	49,5	51,0	1,40	**CMP – 32 – ▭**	**PVC 11**	0,329
M40 x 1,5	32,1	26,0	40,4	15	53,0	61,0	1,40	**CMP – 40 – ▭**	**PVC 15**	0,487
M50 x 1,5	38,1	35,0	46,7	15	52,5	66,5	1,40	**CMP – 50s – ▭**	**PVC 18**	0,627
M50 x 1,5	44,0	38,0	53,1	15	52,5	77,7	1,40	**CMP – 50 – ▭**	**PVC 21**	0,750
M63 x 1,5	50,0	45,6	59,4	15	67,0	83,2	1,50	**CMP – 63s – ▭**	**PVC 23**	1,463
M63 x 1,5	55,9	54,6	65,9	15	67,0	88,7	1,50	**CMP – 63 – ▭**	**PVC 25**	1,181
M75 x 1,5	61,9	57,0	72,1	15	75,5	101,6	1,50	**CMP – 75s – ▭**	**PVC 28**	1,913
M75 x 1,5	67,9	60,4	78,5	15	74,0	111,1	1,50	**CMP – 75 – ▭**	**PVC 30**	2,174
M90 x 2,0	79,3	69,2	90,4	15	90,0	128,6	1,60	**CMP – 90 – ▭**	**PVC 32**	3,400

Add. to ordering code:

EEx e II-Series	**CMP – ▭ – CXe**
Non-Ex-Series	**CMP – ▭ – CX**

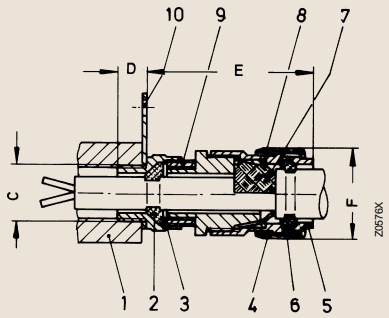
Gland entry thread [C] with Pg, Imperial, NPT see table comparison - technical data page 13/15.
– text – PVC-shroud – description see page 13/25.
* (10) Length of thread industrial gland

Cable Glands
for Wire-Braided Armour Cable, Series E1X



Cable Glands
for Wire-Braided Armour Cable
Series E1X

- Sealing of inner and outer cable sheath
- With neoprene seal for conductor protection
- Versions:
  EEx d IIC / EEx e II
  Non-Ex



1. Associated enclosure wall
2. Inner neoprene seal
3. Skid washer
4. Swaged end producing completely captive armour lock assembly
5. Tapered ferrule
6. Outer neoprene seal
7. Wire braided armour cable
8. Armour clamp
9. Screwed bush
10. Earth tag, if required

STAHL

Selection table

Dimensions [mm]								Wire braided thickness [mm]	Ordering code		Weight
Entry thread	Cable diameter Inner sheath		Outer sheath						Cable gland	PVC-shroud	
C	min.	max.	min.	max.	D	E	F	max.			[kg]
M20 x 1,5	3,1	8,6	6,0	13,4	15	57,0	24,4	0,85	**CMP – 20/16 –** ▭	**PVC 02**	0,135
M20 x 1,5	6,1	11,6	9,5	15,9	15(10)*	58,5	26,6	0,85	**CMP – 20s –** ▭	**PVC 04**	0,141
M20 x 1,5	6,5	13,9	12,5	20,9	15(10)*	60,5	33,3	0,90	**CMP – 20 –** ▭	**PVC 06**	0,215
M25 x 1,5	11,1	19,9	19,0	26,2	15(10)*	67,5	40,5	1,25	**CMP – 25 –** ▭	**PVC 09**	0,311
M32 x 1,5	17,0	26,2	22,9	33,9	15(10)*	69,5	51,0	1,40	**CMP – 32 –** ▭	**PVC 11**	0,423
M40 x 1,5	22,0	32,1	26,0	40,4	15	78,0	61,0	1,40	**CMP – 40 –** ▭	**PVC 15**	0,649
M50 x 1,5	29,5	38,1	35,0	46,7	15	75,5	66,5	1,40	**CMP – 50s –** ▭	**PVC 18**	0,770
M50 x 1,5	35,6	44,0	38,0	53,1	15	80,5	77,7	1,40	**CMP – 50 –** ▭	**PVC 21**	0,948
M63 x 1,5	40,1	50,0	45,6	59,4	15	88,7	83,2	1,50	**CMP – 63s –** ▭	**PVC 23**	1,671
M63 x 1,5	47,2	55,9	54,6	65,9	15	88,7	88,7	1,50	**CMP – 63 –** ▭	**PVC 25**	1,415
M75 x 1,5	52,8	61,9	57,0	72,1	15	101,6	101,6	1,50	**CMP – 75s –** ▭	**PVC 28**	2,094
M75 x 1,5	59,1	67,9	60,4	78,5	15	111,6	111,1	1,50	**CMP – 75 –** ▭	**PVC 30**	2,301

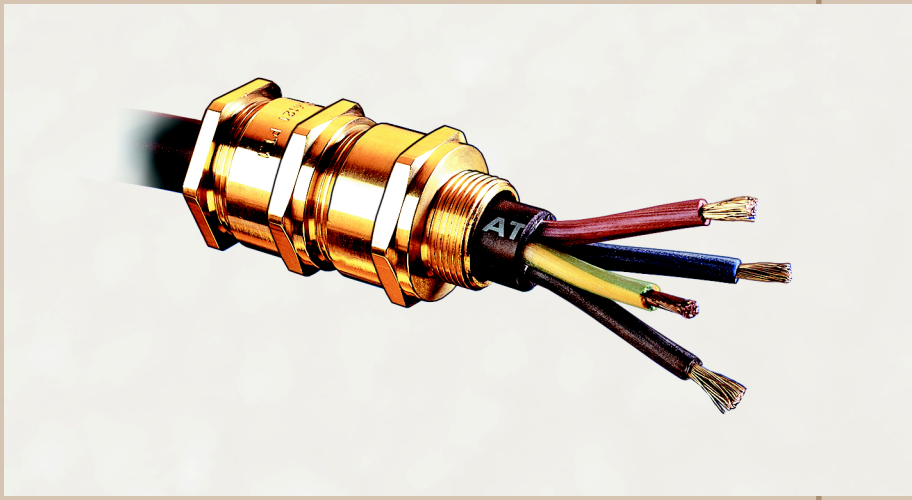
Add. to ordering code:

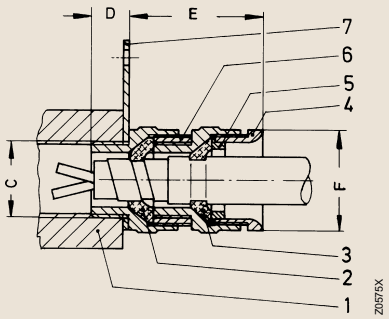
EEx d IIC/EEx e II-Series	**CMP –** ▭ **– E1FX**
Non-Ex-Series	**CMP –** ▭ **– E1X**

Gland entry thread [C] with Pg, Imperial, NPT see table comparison - technical data page 13/15.
– text – PVC-shroud – description see page 13/25.
* (10) Length of thread industrial gland

Cable Glands for Steel Tape Armoured Cable Series A4

- Earthing of inner cable via lead seal
- Protection against water via outer seal
- Versions:
  EEx e II
  Non-Ex





1. Associated enclosure wall
2. Inner lead seal
3. Outer neoprene seal
4. Compression nut
5. Skid washer
6. Screwed bush
7. Earth tag, if required

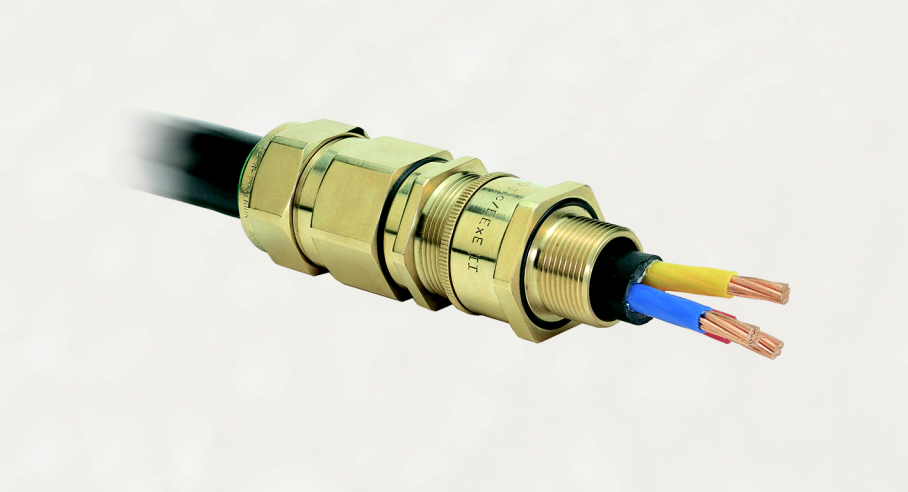
Selection table

Dimensions [mm]								Ordering code		Weight
Entry thread	Cable diameter over steel tape		Outer sheath					Cable gland	PVC-shroud	
C	min.	max.	min.	max.	D	E	F			[kg]
M20 x 1,5	6,5	11,6	6,1	11,6	15(10)*	31,8	26,5	**CMP – 20s – ☐**	**PVC 04**	0,095
M20 x 1,5	10,0	13,9	6,5	13,9	15(10)*	33,0	30,0	**CMP – 20 – ☐**	**PVC 05**	0,129
M25 x 1,5	11,6	19,9	11,1	19,9	15(10)*	38,0	39,9	**CMP – 25 – ☐**	**PVC 09**	0,278
M32 x 1,5	19,0	26,2	17,0	26,2	15(10)*	43,0	45,5	**CMP – 32 – ☐**	**PVC 10**	0,294
M40 x 1,5	25,0	32,1	22,0	32,1	15	43,5	55,4	**CMP – 40 – ☐**	**PVC 13**	0,388
M50 x 1,5	27,5	38,1	29,5	38,1	15	39,0	61,0	**CMP – 50s – ☐**	**PVC 15**	0,501
M50 x 1,5	33,1	44,0	35,6	44,0	15	44,6	66,5	**CMP – 50 – ☐**	**PVC 18**	0,529
M63 x 1,5	40,1	49,9	40,1	49,9	15	40,0	77,6	**CMP – 63s – ☐**	**PVC 21**	0,720
M63 x 1,5	47,2	55,9	47,2	55,9	15	44,0	83,2	**CMP – 63 – ☐**	**PVC 23**	0,756
M75 x 1,5	43,5	61,9	52,8	61,9	15	42,5	88,7	**CMP – 75s – ☐**	**PVC 24**	0,819
M75 x 1,5	49,8	67,9	59,1	67,9	15	45,5	94,2	**CMP – 75 – ☐**	**PVC 26**	0,896

Add. to ordering code:

EEx e II-Series	**CMP – ☐ – A4e**
Non-Ex-Series	**CMP – ☐ – A4**

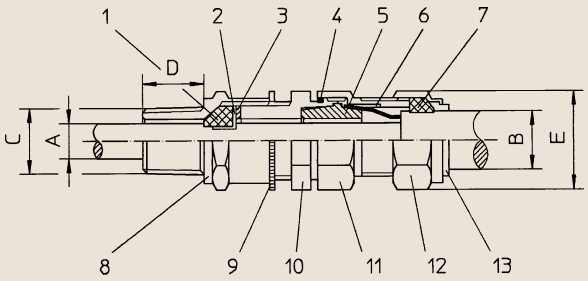
Gland entry thread [C] with Pg, Imperial, NPT see table comparison - technical data page 13/15.
– text – PVC-shroud – description see page 13/25.
* (10) Length of thread industrial gland



Cable Glands for All Types of Armour, Series P2k

- Suitable for
  - steel band armour
  - single wire armour
  - wire braid armour
  - aluminium band armour
  - lead sheath armour
- Sealing of inner and outer cable sheath
- Versions:
  EEx d IIC / EEx e II

1. Inner cable sealing
2. Washer
3. Skid washer
4. 'O'-ring
5. Tapered ferrule
6. Ferrule
7. Outer cable seal



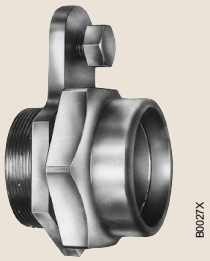
8. Screwed bush
9. Lock-nut
10. Body
11. Enclosure
12. Armour clamp
13. Ferrule

Selection table

Dimensions [mm]							Ordering code	Weight
Entry thread	Cable diameter over armour (A)		Outer sheath (B)		D	E		
C	min.	max.	min.	max.				[kg]
M16	3,1	8,6	6,0	13,4	15	24,4	**CMP – 16 – P2k**	0,145
M20	3,1	8,6	6,0	13,4	15	24,4	**CMP – 20/16 – P2k**	0,155
M20	6,1	11,6	9,5	15,9	15	26,6	**CMP – 20s – P2k**	0,247
M20	6,5	13,9	12,0	20,9	15	33,3	**CMP – 20 – P2k**	0,353
M25	11,1	19,9	18,7	27,4	15	40,5	**CMP – 25 – P2k**	0,532
M32	17,0	26,2	22,9	33,9	15	51,0	**CMP – 32 – P2k**	0,685
M40	22,0	32,1	26,0	40,4	15	61,0	**CMP – 40 – P2k**	0,918
M50	29,5	38,1	35,5	46,7	15	66,5	**CMP – 50s – P2k**	1,081
M50	35,6	44,0	38,0	53,1	15	78,6	**CMP – 50 – P2k**	1,679
M63	40,1	49,9	45,6	59,4	15	83,2	**CMP – 63s – P2k**	1,602
M63	47,2	55,9	54,6	65,9	15	89,0	**CMP – 63 – P2k**	2,094
M75	52,8	61,9	57,0	72,1	15	101,6	**CMP – 75s – P2k**	2,301
M75	59,1	67,9	60,4	78,5	15	111,1	**CMP – 75 – P2k**	4,816
M90	66,6	79,3	69,2	90,4	15	128,6	**CMP – 90 – P2k**	5,134

Technical data see page 13/15

Special design cable gland with integrally cast earth lug



The illustration shows a cable gland with the integrally cast earth lug – add. type no. CIEL. It was specially developed to ensure safe earthing in case of high short-circuit faults particularly where the installation is protected by circuit-breakers. If a phase-to-earth fault develops the armour wires of the cable have to carry the full short-circuit current which, on a 31 MVA 415 volt system is 43 kA. It is imperative, therefore, that the armour – to – gland – to – earth – path is capable of passing this full current for a period of one second to ensure that the circuit-breaker operates.
It is clear that any one of our gland arrangements can be produced with this integrally cast earth lug, with the exception of the D1W and E1W, for as can be seen, this lug is cast as part of item 1 of the gland. This is the item onto which the armour wires are laid and it is therefore vital that the lug is cast at this point to ensure a minimum path of resistance between armour wires and earth point.
Another key feature: the gland is supplied complete with zinc passivated bolt* for fixing of copper earthing tape or similar connection.

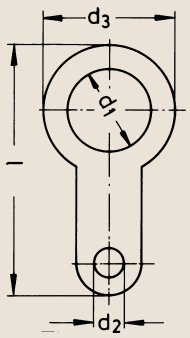
* Size of the bolt thread

Gland size		
	20s, 20, 25, 32	M 8 x 1,25
	40	M10 x 1,5
	50s, 50, 63s, 63, 75s, 75, 90	M12 x 1,75

Earth tag

The earth tag which fits onto the thread at the terminal end is manufactured from brass strip 1,6 mm thick.
By including this earth tag, a more effective bearing surface is presented to the apparatus or other conducting parts. The tags are designed for a short-circuit current of up to 10,4 kA for 1 second.
The earth tags are not suitable for EEx e or EEx d installation.

Design



Selection table

for entry thread diameter	d_1	Short-circuit current [A]	Dimensions [mm] d_2	d_3	L	**Ordering code**	Weight [g]
M 16	16,0	3,06	6,8	25,4	49,3	**460 689 0**	3
M 20/20s	20,6	3,06	7,0	27,7	53,5	**460 690 0**	3
M 25/25s	26,0	4,00	10,5	37,2	64,1	**460 691 0**	3
M 32	32,3	5,40	12,2	44,4	74,2	**460 692 0**	5
M 40	40,3	7,20	13,6	50,9	85,3	**460 693 0**	7
M 50/50s	51,0	10,40	13,5	65,0	111,0	**460 694 0**	13
M 63/63s	63,8	10,40	13,5	82,6	128,6	**460 695 0**	16
M 75/75s	76,5	10,40	13,5	95,3	141,3	**460 696 0**	18
M 90	89,2	10,40	13,5	115,0	163,8	**460 697 0**	22

PVC-Shroud

The PVC shroud totally encloses the gland body and forms an effective seal down onto the cable's sheathing overall.

The shroud has an extensive taper at the cable end and effectively seals the smallest size of cable that the gland will accommodate. To increase its diameter it is only necessary to cut a section off the taper.

The shroud forms a protective seal to the exposed metal parts of the gland when used in highly corrosive atmospheres. They can be supplied in all sizes to suit the complete range of glands we manufacture.

The appropriate shroud is given for each gland size in the selection tables (see pages 13/16 to 13/24).