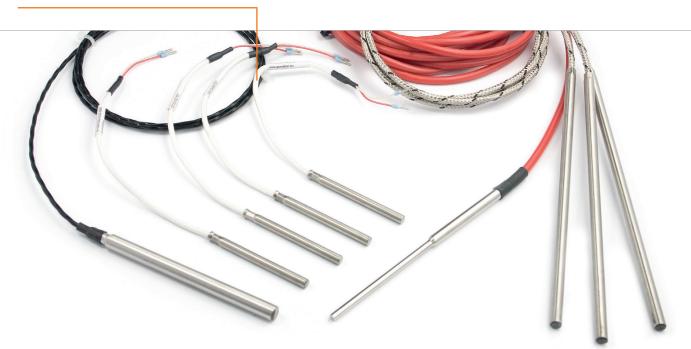


# Data sheet



# **Product group 7X-KFT / KFW**

Cable thermocouples and cable resistance thermometers



Sensors of this type are mainly used for temperature in liquid and gaseous media.

There is a wide range of configuration and assembly options that can be adapted to the specific application.

Due to their design, these sensors can be used in temperature ranges from -200°C to +650°C.

The sensors can optionally be equipped with a Teflon sheath (protection against moisture) and / or springs (protection against cable breakage) at the point where the sleeve meets the cable.

Other types of temperature sensors similar to insertion resistance thermometers are named according to their type of construction or mounting, or the area of application, e.g.:

- Surface sensors
- Contact sensors
- Tube sensors
- Screw-in sensors
- Weld-on sensors



### Advantages of cable thermocouples or resistance thermometers

- Reliable construction
- Partially waterproof versions
- Wide range of configuration options
- Acid and oil-tight versions possible

Application areas of resistance thermometers and thermocouples with bayonet fitting



**Pipelines** 



Industrial machinery and equipment



Heating devices



Freezer compartments



Liquids

Our resistance thermometers are also available in the explosion-proof ATEX version.



#### **Example of a common design in this product group:**

### Measuring sensor / thermocouples

Pt100 Class A

Pt100 Class B

Pt100 Class B 1/3

Pt100 Class B 1/5

Pt100 Class B 1/10

Pt1000 Class A

Pt1000 Class B

NiCr-Ni/K

Fe-CuNi/J

Fe-CuNi/L

Cu-CuNi/T

Cu-CuNi/U

another Pt sensor (Pt ...)

another Ni sensor (Ni100, ...)

NTC/PTC



#### Construction

Cable probe with tension band

Cable probe with metallic protective sleeve

Cable sensor with welding plate

Cable sensor with screw-on block

Cable sensor with screw connection

Cable sensor with magnet



#### Cable ends

Free ends (not tinned)

Free ends (tinned)

Ferrules

Standard plug

Mini plug

Standard-HT plug

Mini-HT plug

Standard ceramic plug

LEMO connector, size 0 to 3

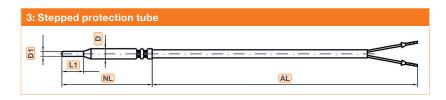
Special solutions such as materials not listed here, process connections, accessories, etc. are often available on request.

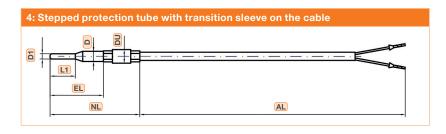
Feel free to contact us!

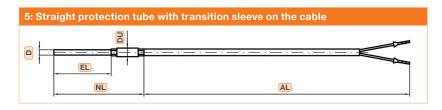
### Series 7A Cable temperature probe with metallic protection tube













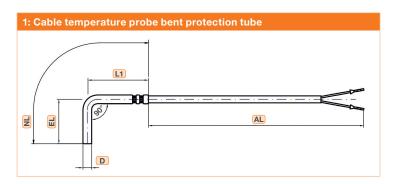
- Protection tube diameter
- **D1** Taper diameter
- **DU** Transition sleeve diameter
- **EL** Fitting length
- **NL** Nominal length
- **L1** Taper length
- AL Cable length

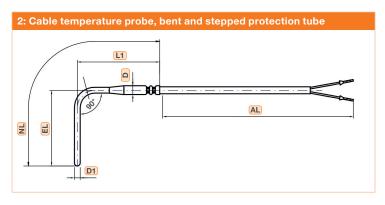


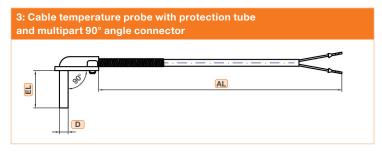
Series 7A Cable probe with metallic protective sleeve – Article number key

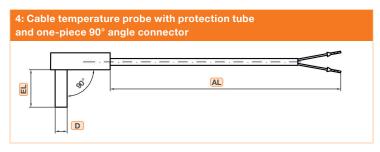
Product group 7	A	-	1	1	2	1	6 0	3	6	-	0	2	0 0		1 2	2 0	Н	0 0	1
Construction Cable temperature probe with metal protection tube	Α																		
Design Protection sleeve straight Straight pocket, reinforced measuring point Tapered protective sleeve Tapered protective sleeve with transition sleeve Protection sleeve with transition sleeve Protection sleeve perforated Others			1 2 3 4 5 6 9																
Resistance thermometer / thermocouple  1x Pt100-2L 1x Pt100-3L 1x Pt100-4L 1x Pt1000-2L 1x Pt1000-2L 1x Pt1000-3L 1x Ni1000LG-2L 2x Pt100-3L 1x Fe-CuNi / Type L 1x Fe-CuNi / Type J 1x Fe-CuNi / Type J 1x Fe-CuNi / Type K 1x Fe-CuNi / Type L 1x Fe-CuNi / Type N 1x Fe				1 1 1 1 1 7 2 2 4 5 6 4 5 6	2 3 4 6 7 7 2 3 1 1 1 5 5 5 5	1 2													
Class 1 (according to IEC 60584, e.g. for 1x Fe-CuNi)  Diameter (D)						1	6 0												
2.0 mm to 9.9 mm with 1 decimal place e.g. 6.0 mm 10.0 mm to 15.0 mm without decimal place e.g. 10 mm							6 0 1 0												
Cable ends Free ends Ferrules Other: see tables								3	0										
Cable length (AL) In meter with 2 decimal digits, e.g. 2.0 m → 0200											0	2	0 0						
Installation length (EL) or nominal length (NL) In mm e.g. 120 mm														-	1 :	2 0			
Cable isolation FEP / Silicone (T <sub>max</sub> +200°C) Other: see tables																	Н		
Extra codes / Consecutive numbers (of the next version) Spring strain relief Other as needed and agreed, the number is provided by the	man	ufac	cture	er														0 0	1

Series 7B
Cable temperature probe with bent protection tube or angle connector









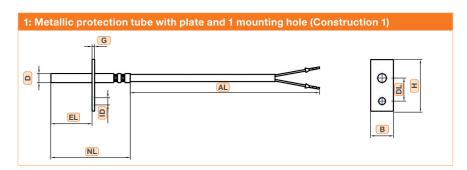
- Protection tube diameter
- **D1** Taper diameter
- **EL** Insertion length
- **NL** Nominal length
- **AL** Cable length

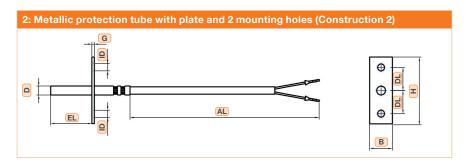


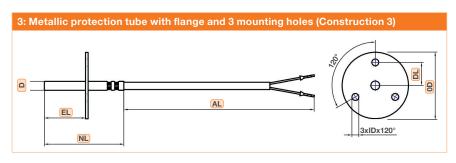
Series 7B Cable temperature probe with bent protection tube or angle connector – Article number key

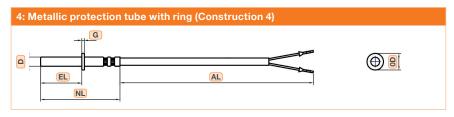
Product group	7	В	-	1	1	2	1	6	0	3	6	-	0	2	0	0	1	2	0	Z	0	0	1
Construction Cable temperature probe with metallic protection tube, angled version		В																					
Design Bent protection tube Bent, tapered protection tube Angled, screwed connector 90° One-piece angle connector 90° Other				1 2 3 4 9																			
Resistance thermometer / thermocouple  1x Pt100-2L  1x Pt100-3L  1x Pt100-4L  1x Pt1000-2L  1x Ni1000LG-2L  2x Pt100-3L  1x Fe-CuNi / Type L  1x Fe-CuNi / Type J  1x Fe-CuNi / Type K  1x Fe-CuNi / Type L  1x Fe-CuNi / Type K  1x NiCr-Ni / T					1 1 1 1 7 2 2 4 5 6 4 5 6	2 3 4 6 7 2 3 1 1 1 5 5 5																	
Class B (according to IEC 60751, e.g. for Pt100) Class A (according to IEC 60751, e.g. for Pt100) Class 1 (according to IEC 60584, e.g. for 1x Fe-CuNi)							1 2 1																
Diameter (D) 2.0 mm to 9.9 mm with 1 decimal digit e.g. 6.0 mm 10.0 mm to 15.0 mm without decimal place e.g. 10 mm									0														
Cable ends Free ends Ferrules Other: see tables										3	0												
Cable length (AL) In meter with 2 decimal digits, e.g. 2.0 m → 0200													0	2	0	0							
Installation length (EL) or nominal length (NL) In mm e.g. 120 mm																	1	2	0				
Cable isolation Fiberglass / Fiberglass / Metal braid (T <sub>max</sub> +400°C) Other: see tables																				Z			
Extra codes / Consecutive numbers (of the next version Spring strain relief Heat shrink tube / sleeve strain relief Other as needed and agreed, the number is provided by the		ianui	fact	ture	r																0	0	1 2

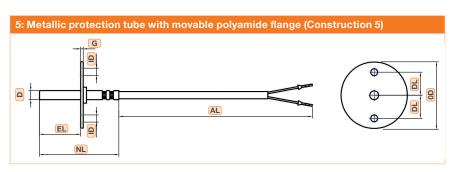
Series 7C Cable temperature probe with metallic protection tube and mounting stop











- Protection tube diameter
- **EL** Insertion length
- **NL** Nominal length

**ID** Inside diameter

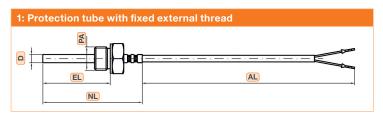
- AL Cable length
- G Thickness
- Inickness
- **DL** Distance between the holes
- **OD** Outside diameter
- **H** Height
- **B** Width

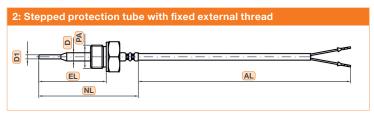


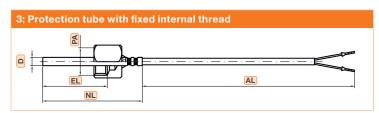
Series 7C Cable temperature probe with metallic protection tube and mounting stop – Article number key

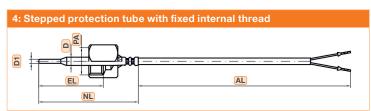
Product group	7 C	-	1	1	2	1	6 0	3	6	-	0	2	0	0	1	2	0	Z	1	0	1
Construction Cable termperature probe with mounting stop	С																				
Design Protection tube with plate and 1 hole Protection tube with plate and 2 holes Protection tube with flange Protection tube with flange Protection tube with ring Protection tube with a polyamide flange Other			1 2 3 4 5 9																		
Resistance thermometer / thermocouple  1x Pt100-2L  1x Pt100-3L  1x Pt100-4L  1x Pt1000-2L  2x Pt100-2L  2x Pt100-3L  1x Fe-CuNi / Type L  1x NiCr-Ni / Type K  Measuring point isolated  Other: see tables				1 1 1 1 2 2 4 5 6	2 3 4 6 2 3 1 1																
Limit deviation Class B (according to IEC 60751, e.g. for Pt100) Class A (according to IEC 60751, e.g. for Pt100) Class 1 (according to IEC 60584, e.g. for 1x Fe-CuNi)						1 2 1															
Diameter (D) 2.0 mm to 9.9 mm with 1 decimal digit, e.g. 6.0 mm 10.0 mm to 15.0 mm without decimal place e.g. 10 mm							6 0														
Cable ends Free ends Ferrules Other: see tables									0												
Cable length (AL) In meter with 2 decimal digits, e.g.: 2.0 m → 0200											0	2	0	0							
Installation length (EL) or nominal length (NL) In mm e.g. 120 mm															1	2	0				
Cable isolation Fiberglass / Fiberglass / Metal braid (T <sub>max</sub> +400°C) Other: see tables																		Z			
Plate / ring / flange Metal plate 20x10x5 mm with 1 hole Ø 5 mm (Design 1) Metal plate 15x38x5 mm with 1 hole Ø 6.3 mm (Design 2) Metal flange diameter 30 mm with 3 holes (Design 3) Stop Ring 2 mm wide (Design 4) Polyamid flange, diameter 39 mm with 2 holes (Design 5)																			1 1 3 0 3	0 1 3 2 9	
Extra codes / Consecutive numbers (of the next version Spring strain relief Heat shrink tube / sleeve strain relief	)																				1 2

Series 7D
Cable temperature probe with fixed threaded process connection









- **D** Protection tube diameter
- **D1** Taper diameter
- **EL** Insertion length
- **NL** Nominal length
- **AL** Cable length
- PA Process connection

### Threaded connections (PA): Thread

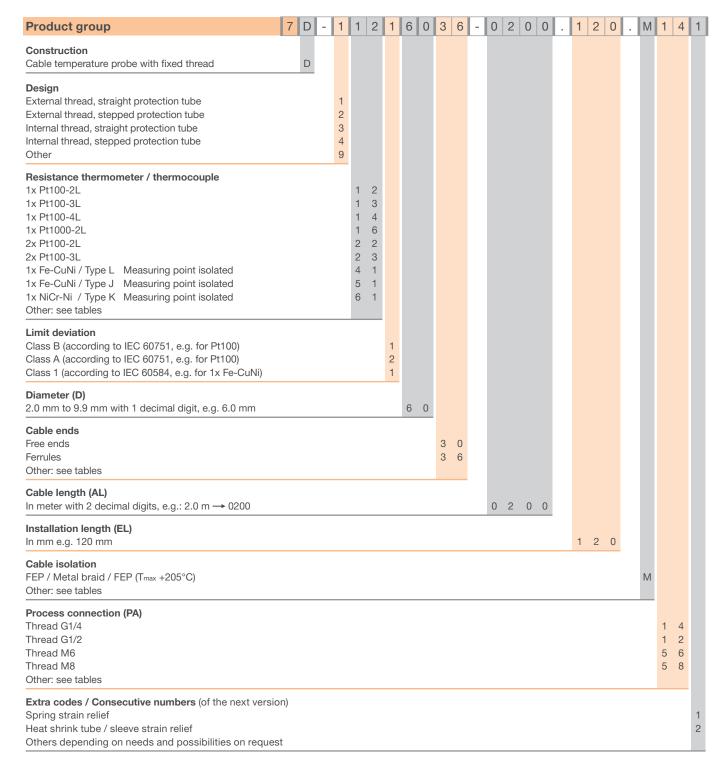
Code	Metric thread
53	M3 (x0,5)
54	M4( x0,7)
55	M5 (x0,8)
56	M6 (x1)
57	M7 (x1)
58	M8 (x1,25)
59	M9 (x1,25)
50	M10 (x1,5)
76	M12 (x1,75)
77	M14 (x2)
79	M16 (x2,5)
81	M18 (x2,5)
52	M20 (x2,5)

Code	Metric fine thread	Code	Metric fine thread
51	M10x1	72	M12x1
61	M6x0,5	74	M12x1,25
62	M6x0,75	75	M12x1,5
64	M8x0,5	78	M14x1,5
65	M8x0,75	80	M16x1,5
66	M8x1	82	M18x2
67	M9x1	83	M18x1,5
68	M10x1,25	84	M20x1,5
69	M10x0,75	86	M22x1,5
70	M11x1,5	87	M24x1,5
71	M12x0,75	88	M27x2

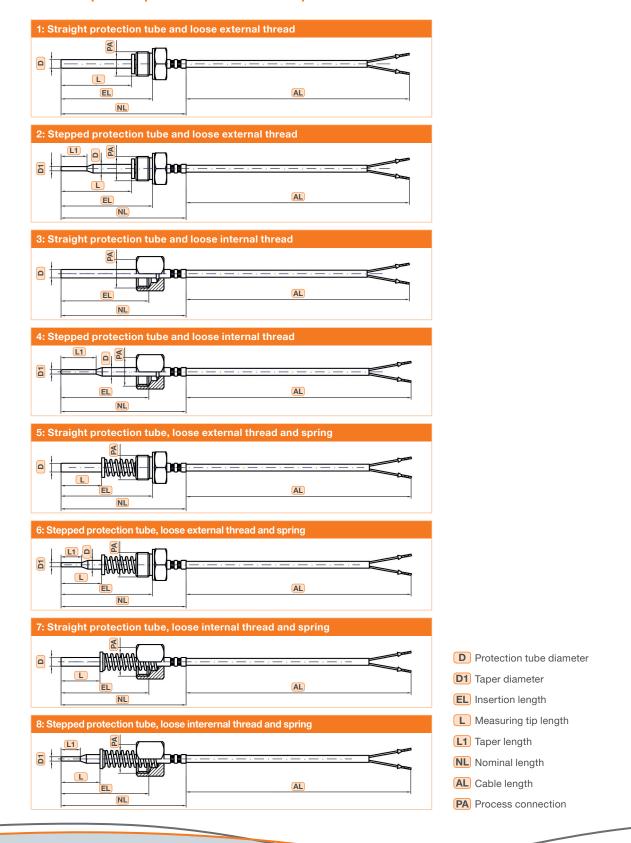
Code	Inch thread
11	G1/8 BSP
12	G1/2 BSP
13	G3/4 BSP
14	G1/4 BSP
15	G3/8 BSP
16	G1 BSP
21	1/8-NPT
22	1/2-NPT
23	3/4-NPT
24	1/4-NPT
25	3/8-NPT
31	R1/8
32	R1/2
33	R3/4
34	R1/4
35	R3/8



Series 7D
Cable temperature probe with fixed threaded process connection – Article number key

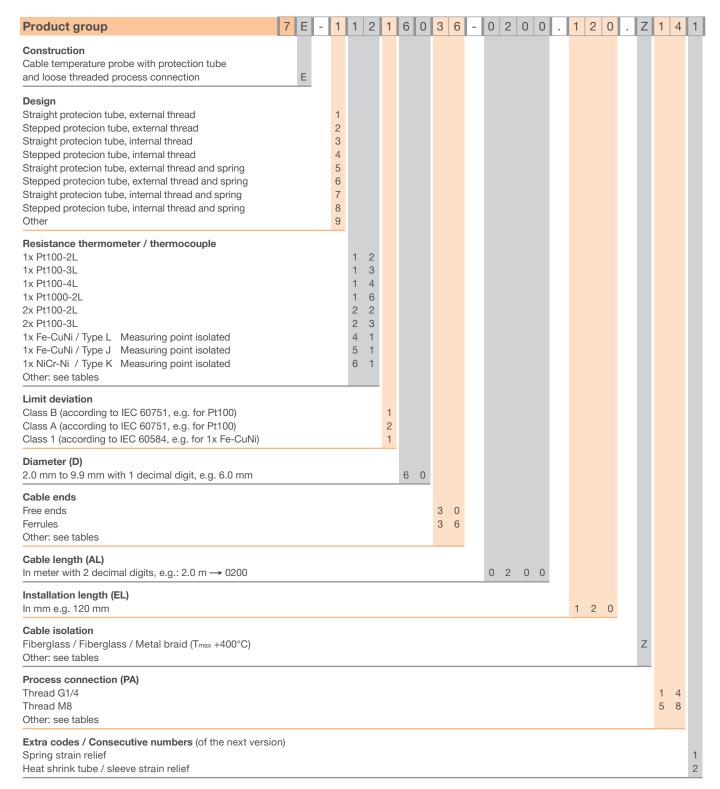


Series 7E
Cable temperature probe with loose threaded process connection

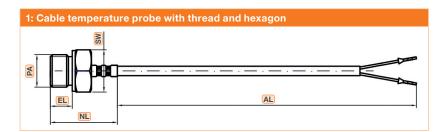




Series 7E
Cable temperature probe with loose threaded process connection – Article number key



### Series 7F Cable temperature probe with thread





- **EL** Insertion length
- **NL** Nominal length
- AL Cable length
- PA Process connection
- **SW** Wrench size

### Threaded connections (PA): Thread

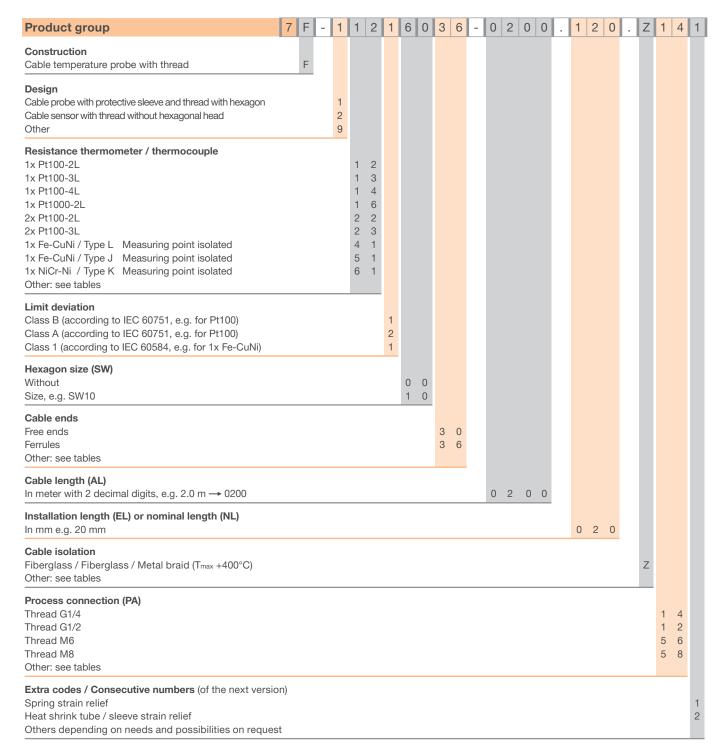
Code	Metric thread
53	M3 (x0,5)
54	M4( x0,7)
55	M5 (x0,8)
56	M6 (x1)
57	M7 (x1)
58	M8 (x1,25)
59	M9 (x1,25)
50	M10 (x1,5)
76	M12 (x1,75)
77	M14 (x2)
79	M16 (x2,5)
81	M18 (x2,5)
52	M20 (x2,5)

Code	Metric fine thread
51	M10x1
61	M6x0,5
62	M6x0,75
64	M8x0,5
65	M8x0,75
66	M8x1
67	M9x1
68	M10x1,25
69	M10x0,75
70	M11x1,5
71	M12x0,75
72	M12x1
74	M12x1,25
75	M12x1,5
78	M14x1,5
80	M16x1,5
82	M18x2
83	M18x1,5
84	M20x1,5
86	M22x1,5
87	M24x1,5
88	M27x2

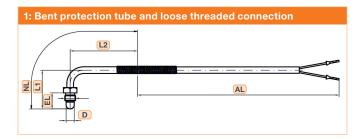
Code	Inch thread
11	G1/8 BSP
12	G1/2 BSP
13	G3/4 BSP
14	G1/4 BSP
15	G3/8 BSP
16	G1 BSP
21	1/8-NPT
22	1/2-NPT
23	3/4-NPT
24	1/4-NPT
25	3/8-NPT
31	R1/8
32	R1/2
33	R3/4
34	R1/4
35	R3/8

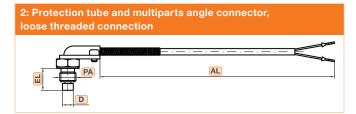


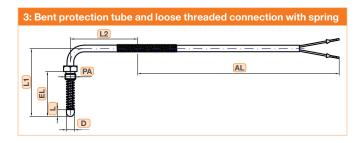
Series 7F Cable temperature probe with thread – Article number key

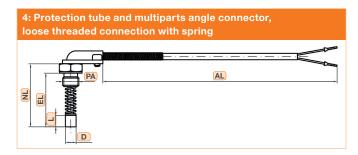


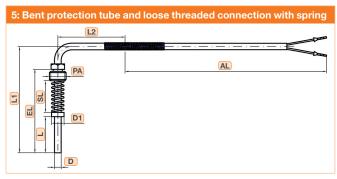
Series 7G Angled cable probe, loose screw connection

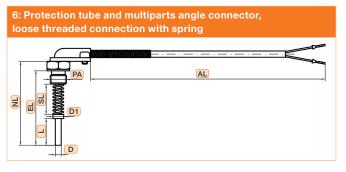












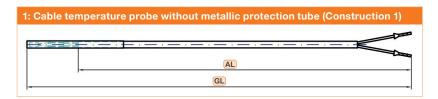
- **D** Protection tube diameter
- **D1** Ring diameter
- **EL** Insertion length
- **NL** Nominal length
- **SL** Spring length
- L Measuring tip length
- L1 Length
- L2 Length
- **AL** Cable length
- PA Process connection

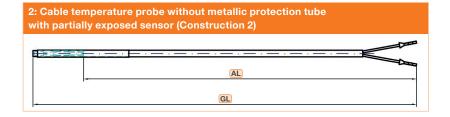


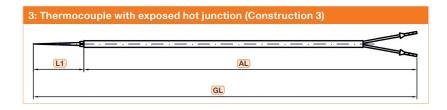
Series 7G Angled cable probe, loose screw connection – Article number key

Product group	7 G	-	1	1	2	1	6 0	3	6	-	0	2	0	0	0	2	0	. [	Z	1	4	1
Construction Angled cable probe with loose screw connection	G																					
Design Bent protection tube, loose thread Multiparts angle connector 90°, loose thread Bent protection tube, loose thread and spring Multiparts angle connector 90°, loose thread and spring Bent protection tube, loose thread and spring Multiparts angle connector 90°, loose thread and spring Other			1 2 3 4 5 6 9																			
Resistance thermometer / thermocouple  1x Pt100-2L  1x Pt100-3L  1x Pt100-4L  1x Pt1000-2L  2x Pt100-2L  2x Pt100-3L  1x Fe-CuNi / Type L Measuring point isolated  1x NiCr-Ni / Type K Measuring point isolated  Other: see tables				1 1 1 2 2 4 5	2 3 4 6 2 3 1 1																	
Limit deviation Class B (according to IEC 60751, e.g. for Pt100) Class A (according to IEC 60751, e.g. for Pt100) Class 1 (according to IEC 60584, e.g. for 1x Fe-CuNi)						1 2 1																
Diameter (D) 2.0 mm to 9.9 mm with 1 decimal digit, e.g. 6.0 mm							6 0															
Cable ends Free ends Ferrules Other: see tables								3														
Cable length (AL) In meter with 2 decimal digits, e.g. 2.0 m → 0200											0	2	0	0								
Installation length (EL) In mm e.g. 20 mm															0	2	0					
Cable isolation Fiberglass / Fiberglass / Metal braid (T <sub>max</sub> +400°C) Other: see tables																			Z			
Process connection (PA) Thread G1/4 Thread G1/2 Thread M6 Thread M8 Other: see tables																				1 5	4 2 6 8	
Extra codes / Consecutive numbers (of the next versio Spring strain relief Heat shrink tube / sleeve strain relief	n)																					1 2

### Series 7J Cable temperature probe without metallic protecton tube



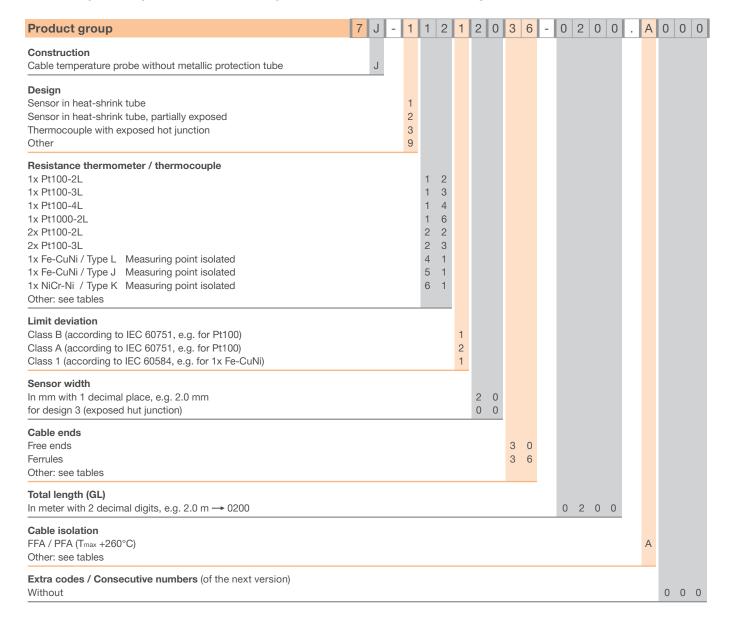




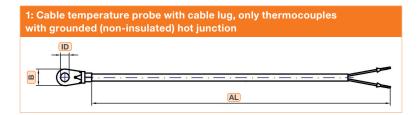
- **AL** Cable length
- **GL** Total length
- L1 Measuring tip length

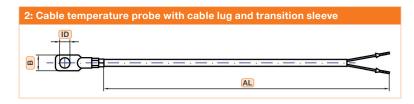


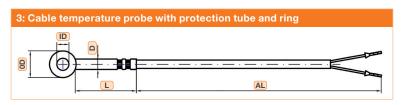
### Series 7J Cable temperature probe without metallic protecton tube – Article number key



#### Series 7K Cable temperature probe with mounting hole





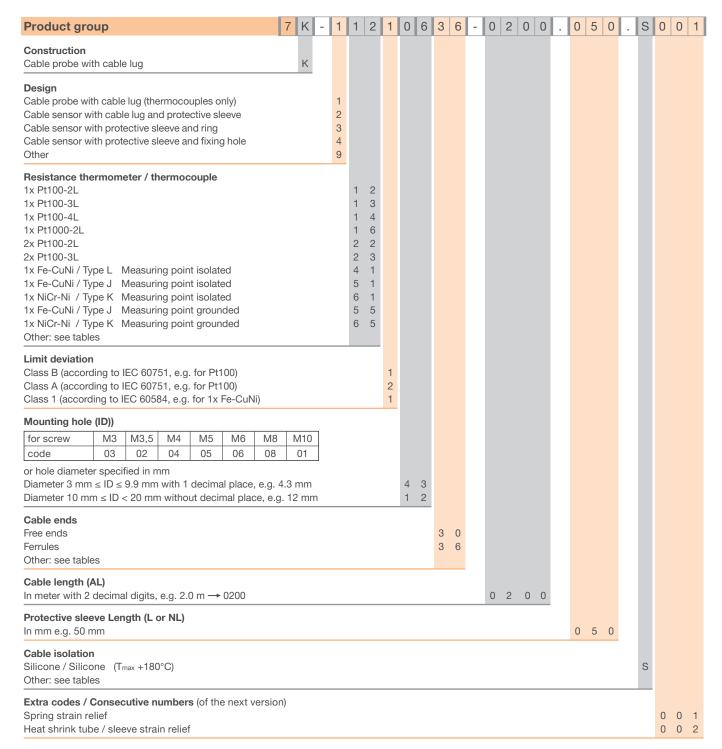




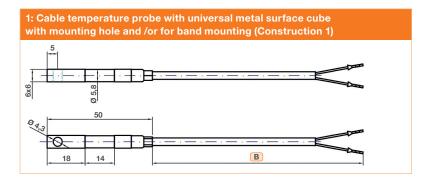
- L / NL Protective sleeve length
- AL Cable length
- ID Internal diameter
- **OD** Outside diameter
- **B** Width
- Protection tube diameter

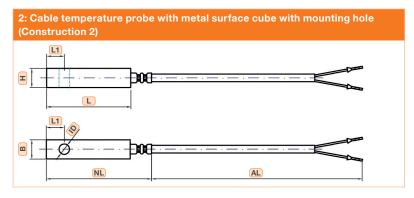


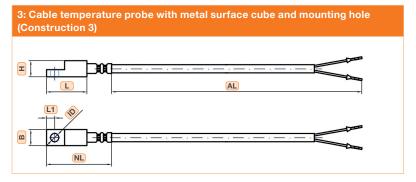
# Series 7K Cable temperature probe with mounting hole – Article number key

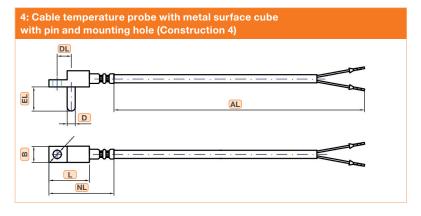


Series 7L
Cable temperature probe with surface cube and mounting hole





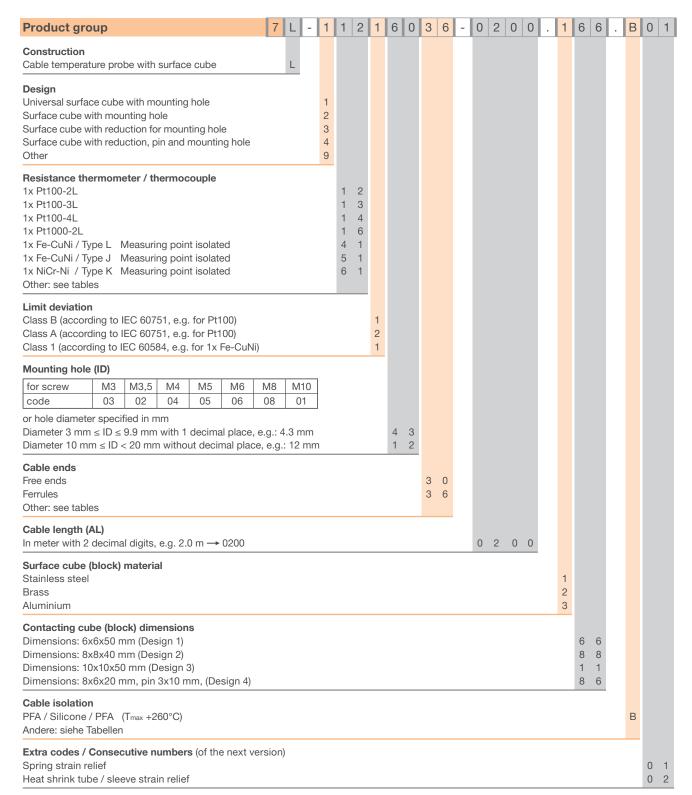




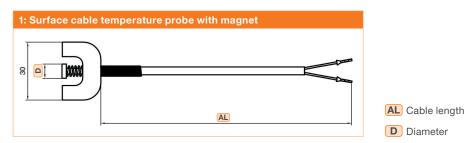
- **AL** Cable length
- **NL** Nominal length
- L Length
- L1 Length
- **ID** Internal diameter
- **H** Height
- **B** Width
- Protection tube diameter
- **DL** Distance between axles



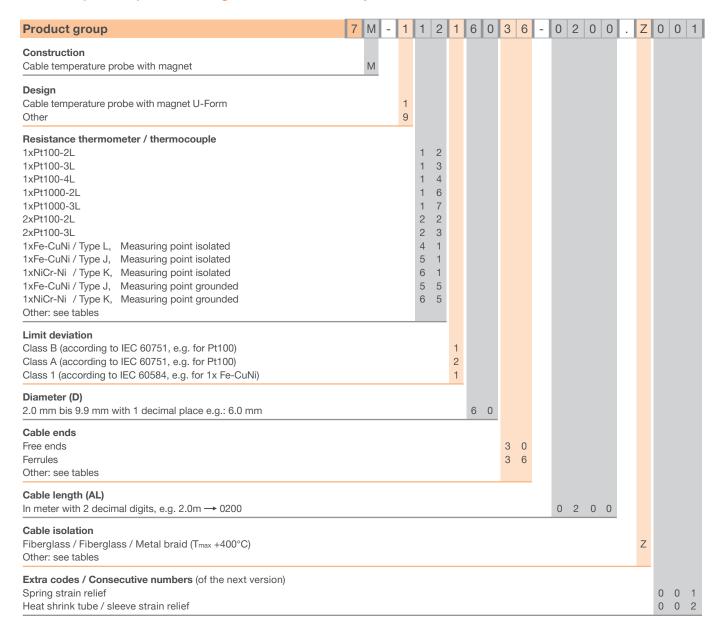
Series 7L
Cable temperature probe with surface cube and mounting hole – Article number key



### Series 7M Cable temperature probe with magnet

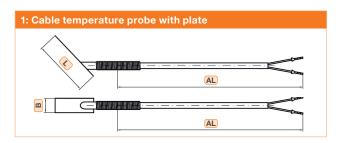


Series 7M Cable temperature probe with magnet – Article number key



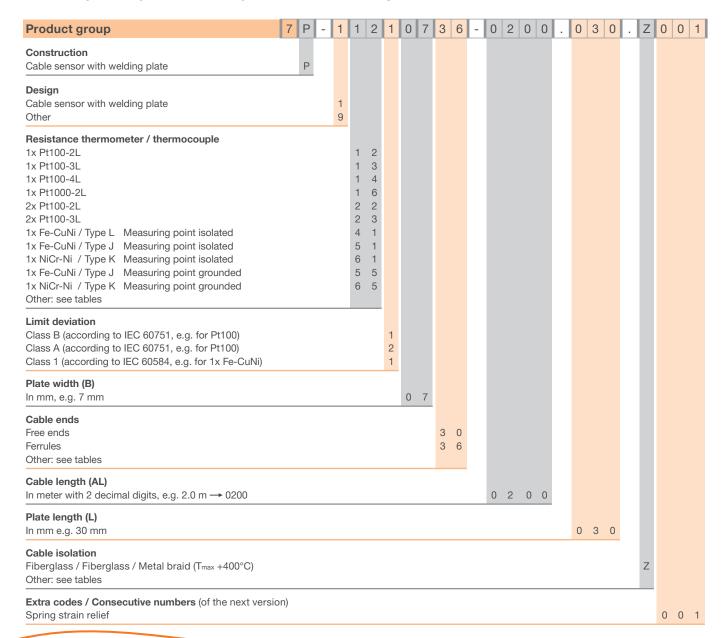


Series 7P
Cable temperature probe with metal plate

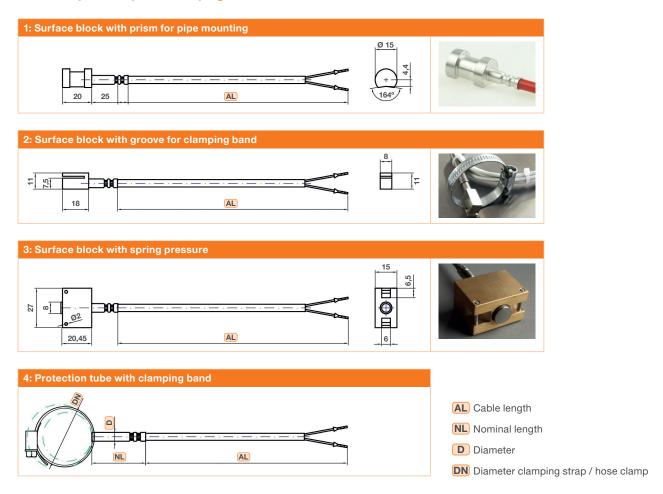


- **AL** Cable length
- B Metal plate width
- L Metal plate length

Series 7P
Cable temperature probe with metal plate – Article number key



Series 7S Cable temperature probe clamping band installation

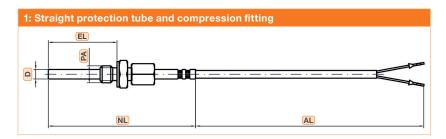


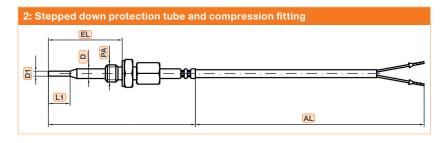


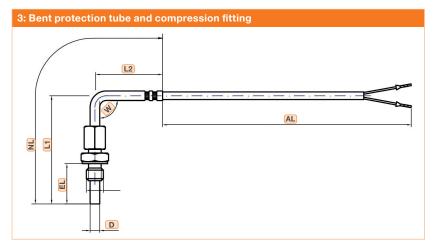
Series 7S Cable temperature probe clamping band installation – Article number key

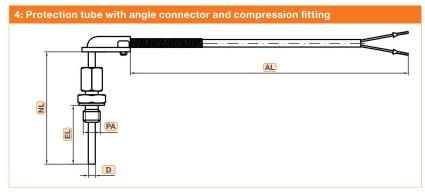
Product group	7 S -	1	1	2	1	1 5	3	6	-	0	2	0	0	0	6	0	Υ	0	0	1
Construction Cable temperature probe for clamping band	S																			
Design Surface block with prism Surface block with groove Surface block with spring Protection tube with clamping band Other		1 2 3 4 9																		
Resistance thermometer / thermocouple  1x Pt100-2L  1x Pt100-3L  1x Pt100-4L  1x Pt1000-2L  1x Fe-CuNi / Type L Measuring point isolated  1x Fe-CuNi / Type J Measuring point isolated  1x NiCr-Ni / Type K Measuring point isolated  1x Fe-CuNi / Type J Measuring point isolated  1x Fe-CuNi / Type J Measuring point grounded  1x NiCr-Ni / Type K Measuring point grounded  Other: see tables			1 1 1 1 4 5 6 5 6	2 3 4 6 1 1 5 5																
Limit deviation Class B (according to IEC 60751, e.g. for Pt100) Class A (according to IEC 60751, e.g. for Pt100) Class 1 (according to IEC 60584, e.g. for 1x Fe-CuNi)					1 2 1															
Diameter / width of surface part Diameter (D) in mm (Design 1) Width in mm (Design 2) Surface cube (Design 3) Protection tube diameter in mm e.g. 6.0 mm (Design 4)						1 5 0 8 2 0 6 0														
Cable ends Free ends Ferrules Other: see tables							3	0												
Cable length (AL) In meter with 2 decimal digits, e.g. 2.0 m → 0200										0	2	0	0							
Clamping band           Size         Pipe diameter         Band width           060         40 mm - 60 mm         9 mm           080         60 mm - 80 mm         9 mm           100         80 mm - 100 mm         9 mm           360         max. 360 mm         9 mm           500         max. 125 mm         4,5 mm           900         max. 250 mm         8 mm           000         without band														0 0 1 3 5 9	8	0 0 0 0 0				
Cable isolation Fiberglass / Fiberglass / Metal braid (T <sub>max</sub> +400°C) Other: see tables																	Υ			
Extra codes / Consecutive numbers (of the next version Spring strain relief	n)																	0	0	1

Series 7V
Cable temperature probe with protection tube and compression fitting





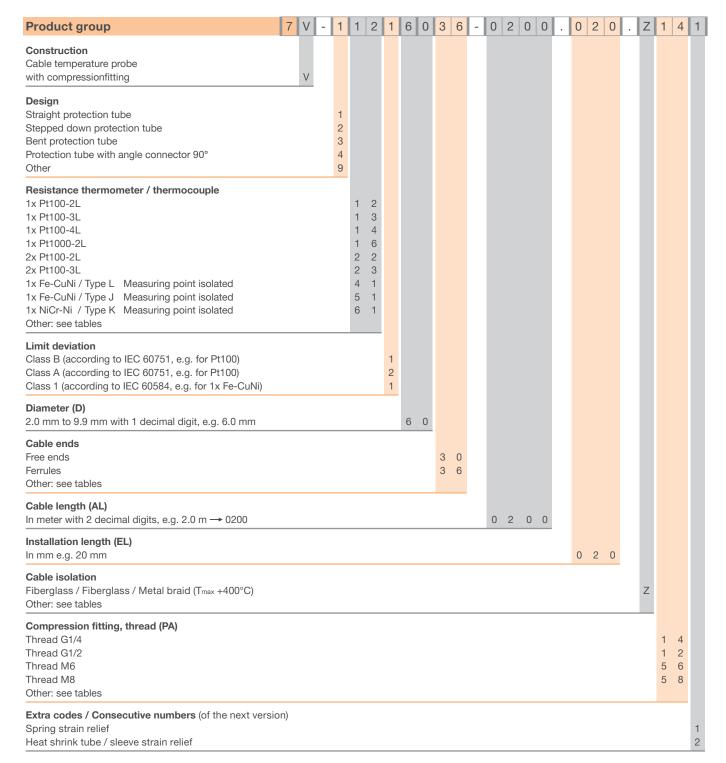




- Protection tube diameter
- **D1** Taper diameter
- **EL** Fitting length
- **NL** Nominal length
- L Measuring tip length
- L1 Taper length
- L2 Length
- **AL** Cable length
- PA Process connection
- W Angle



Series 7V
Cable temperature probe with protection tube and compression fitting – Article number key



### List of examples of additional options, extras

- Spring strain relief
- Heat shrink tube / sleeve strain relief
- The grounding conductor is led from the cable shield
- Other: on request, as agreed

Note: Each combination of the individual options and type codes must be technically checked and approved by us.

### **Tables Sensors and Thermocouples**

Resist	ance thermometer	
Code	Description	
12	1x Pt100-2L	IEC/EN 60751
13	1x Pt100-3L	IEC/EN 60751
14	1x Pt100-4L	IEC/EN 60751
16	1x Pt1000-2L	IEC/EN 60751
17	1x Pt1000-3L	IEC/EN 60751
18	1x Pt1000-4L	IEC/EN 60751
19	1x Pt500-2L	IEC/EN 60751
22	2x Pt100-2L	IEC/EN 60751
23	2x Pt100-3L	IEC/EN 60751
24	2x Pt100-4L	IEC/EN 60751
25	2x Pt500-2L	IEC/EN 60751
26	2x Pt1000-2L	IEC/EN 60751
27	2x Pt1000-3L	IEC/EN 60751
28	2x Pt1000-4L	IEC/EN 60751
29	2x Pt500-3L	IEC/EN 60751
77	1x Ni1000LG-2L	
78	1x NTC 1,8kOhm-2L	-
82	1x NTC 50kOhm-2L	

Inermocouples			
Code	Description		
41	1x Fe-CuNi	/ Type L	Measuring point isolated
51	1x Fe-CuNi	/ Type J	Measuring point isolated
61	1x NiCr-Ni	/ Type K	Measuring point isolated
71	1x Cu-CuNi	/ Type T	Measuring point isolated
42	2x Fe-CuNi	/ Type L	Measuring point isolated
52	2x Fe-CuNi	/ Type J	Measuring point isolated
62	2x NiCr-Ni	/ Type K	Measuring point isolated
45	1x Fe-CuNi	/ Type L	Measuring point grounded
55	1x Fe-CuNi	/ Type J	Measuring point grounded
65	1x NiCr-Ni	/ Type K	Measuring point grounded
74	1x Cu-CuNi	/ Type T	Measuring point grounded
46	2x Fe-CuNi	/ Type L	Measuring point grounded
56	2x Fe-CuNi	/ Type J	Measuring point grounded
66	2x NiCr-Ni	/ Type K	Measuring point grounded
60	1x NiCr-Ni	/ Type K	exposed measuring point
54	1x Fe-CuNi	/ Type J	exposed measuring point
49	1x NiCr-NiSi	/ Type N	exposed measuring point

Limit deviation (resistance sensors)		
Code	Description	
1	Class B according to IEC/EN 60751	
2	Class A according to IEC/EN 60751	
3	Class AA according to IEC/EN 60751	
4	Class C according to IEC 60751	
5	Class 1/5 B (1/5 Class B, IEC 60751)	
6	Class 1/10 B (1/10 Class B, IEC 60751)	

Limit deviation (thermocouples)		
Code	Description	
1	Class 1 according to IEC 60584	
2	Class 2 according to IEC 60584	
3	Class 3 according to IEC 60584	

Digital 1-wire interface	
Code	Description
85	DS18B20



### **Tables Cables / Isolations / End Terminations**

Cable isolation			
Code	Isolation material	Short description	Permissible ambient temperature
J	PVC / PVC	PVC-PVC	+90°C
S	Silicone / Silicone	SL-SL	+180°C
Н	FEP / Silicone	FEP-SP	+200°C
М	FEP / Metal braid / FEP	FEP-Cu-FEP	+205°C
Α	PFA / PFA	PFA-PFA	+260°C
W	PFA / Aluminum foil with copper core/ PFA	PFA-Cu-PFA	+260°C
В	PFA / Silicone / PFA	PFA-SL-PFA	+260°C
Υ	Fiberglass / Fiberglass / Metal braid VA	GL-GL-VA	+400°C
Z	Fiberglass / Fiberglass / Metal braid	GL-GL-P	+400°C
D	Fiberglass - R / Fiberglass - R / Metal braid VA	RL-RL-VA	+650°C
G	Fiberglass / Fiberglass	GL-GL	+400°C
R	Fiberglass / Fiberglass	GL-GL	+650°C
AE	PFA / Silicone / FEP	PFA-SL-FEP	+205°C
Q	Silicone / Silicone / Metal braid	SL-SL-P	+200°C

Cable termination	
Code	Plugs
01	Standard plug
02	Mini plug
03	Standard HT plug
04	Mini-HT plug
05	Standard ceramic plug
06	Mini ceramic plug
07	Standard-duplex plug
08	Mini duplex plug
10	Lemo plug size 0
11	Lemo plug size 1
12	Lemo plug size 2
13	Lemo plug size 3
14	M12 plug
30	Free ends 50/10 mm
34	non-insulated ferrules

Cable termination	
Code	Sockets
51	Standard socket
52	Mini socket
53	Standard HT socket
54	Mini-HT socket
55	Standard ceramic socket
56	Mini ceramic socket
57	Standard duplex socket
58	Mini duplex socket
60	Lemo socket size 0
61	Lemo socket size 1
62	Lemo socket size 2
63	Lemo socket size 3
64	M12 socket
33	Free ends 50/10 mm, tinned
36	Ferrules - standard

Cable termination		
Code	Junction boxes	
74	Diecast light alloy, size 104	
75	Polyamide	
76	Diecast light alloy, size 130	



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