



Application

FEP Thermocouple Cable. This cable is available as thermocouple extension cable & compensating cable for thermocouples of various types, for instance, type J, type K, type T, type S, type N, type R/S.

Outstanding features

very good against fats, oils, salts and acids

Additional information

DIN 43710 / 43714 (not valid for type B*)

* Not standardized compensating cable for thermocouples type B with application temperatures up to 100 °C resp. 200 °C.

C = compensating cables · X = extension cables

Construction

Insulation	FEP
Stranding	2 cores together
Wrapping	PETP foil
Sheath material	FEP
Shape	round
Conductor construction	strand
Conductor cross section	A 18 L: 1,5 mm ² A 18-022 L: 0,22 mm ²
Outer diameter	A 18 L: approx. 4,8 mm A 18-022 L: approx. 2,5 mm
Weight/100m	A 18 L: approx. 4,2 kg A 18-022 L: approx. 1,0 kg

Technical data

Min. bending radius	12 x d
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Radiation resistance	1 x 10 ⁷ cJ/kg
Temperature range of insulation	fixed laying: -90/+180°C flexible application: -55/+180°C
Insulation resistance	> 1 M Ω x km
Fire performance	no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 Cat. C resp. D, see chapter N „Technical Data“. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2.
Chem. resistance	very good against fats, oils, salts and acids
Absence of harmful substances	acc. to RoHS directive of the European Union

Dimensions

Colour code	For thermocouple	Thermocouple material +Pol/-Pol	Cable type	Colour code core insulation +Pol/-Pol (Sheath)	EMF at 100 °C
IEC 60584	Type T	Cu - CuNi	TX	brown/white (brown)	4,28 mV
IEC 60584	Type J	Fe - CuNi	JX	black/white (black)	5,27 mV
IEC 60584	Type K	NiCr - Ni	KCA	green/white (green)	4,10 mV
IEC 60584	Type K	NiCr - Ni	KCB	green/white (green)	4,10 mV
IEC 60584	Type K	NiCr - Ni	KX	green/white (green)	4,10 mV
IEC 60584	Type E	NiCr - CuNi	EX	purple/white (purple)	6,32 mV
IEC 60584	Type R/S	PtRh13 - PTPtRh10 - PT	R/SCB	orange/white (orange)	0,65 mV
IEC 60584	Type N	NiCrSi - NiSi	NC	pink/white (pink)	2,77 mV
DIN 43710 / 43714	Type L	Fe CuNi	LX	red/blue (blue)	5,37 mV

Colour code	For thermocouple	Thermocouple material +Pol/-Pol	Cable type	Colour code core insulation +Pol/-Pol (Sheath)	EMF at 100 °C
DIN 43710 / 43715	Type K	—	KCA	—	4,10 mV
DIN 43710 / 43716	Type R/S	—	R/SCB	—	0,65 mV
DIN 43710 / 43717	Type U	Cu - CuNi	UX	red/brown (brown)	4,25 mV
DIN 43710 / 43718	Type B*	—	BC-100	—	0,00 mV
DIN 43710 / 43719	Type B*	—	BC-200	—	0,033 mV
IEC 60584	Type T	Cu - CuNi	TX	brown/white (brown)	4,28 mV
IEC 60584	Type J	Fe - CuNi	JX	black/white (black)	5,27 mV
IEC 60584	Type K	NiCr - Ni	KCA	green/white (green)	4,10 mV
IEC 60584	Type K	NiCr - Ni	KCB	green/white (green)	4,10 mV
IEC 60584	Type K	NiCr - Ni	KX	green/white (green)	4,10 mV
IEC 60584	Type E	NiCr - CuNi	EX	purple/white (purple)	6,32 mV
IEC 60584	Type R/S	PtRh13 - PTPtRh10 - PT	R/SCB	orange/white (orange)	0,65 mV
IEC 60584	Type N	NiCrSi - NiSi	NC	pink/white (pink)	2,77 mV
DIN 43710 / 43714	Type L	Fe CuNi	LX	red/blue (blue)	5,37 mV
DIN 43710 / 43717	Type U	Cu - CuNi	UX	red/brown (brown)	4,25 mV

We continue to manufacture compensating and extension cables with colour code acc. to DIN 43714 and the basic values of DIN 43710.