Thermoelectric and compensation cables

STANDARDS:
IEC 584-3; DIN 43714; BS 1843; NF C 42-324; ANSI/MC 96-1

CHARACTERISTICS:

- Insulation resistance at 20°C: min. 6,1 MΩ*km
- Test voltage of the test 50Hz: 2500V (AC)
- Minimum bend radius: 6 x outside diameter



CONSTRUCTION:

- Cores: made of special metal alloys with wires of Ø0.20 mm or other on request
- Insulation: depending on the required constant operating temperature PVC/ SiR/ HFFR/ FEP/ PFA/ GL/ BB
- Outer coating: depending on the required constant operating temperature PVC/ SiR/ HFFR/ FEP/ PFA/ GL/ BB
- Screen: screen made of CuSn wires, reinforcement made of FeZn or AISI 304 stainless steel
- Colors: for the specified standards according to the table below:

Typ	Kompensacyjny	Termoelektryczny	EU IEC 584-3
T		TX	
J		JX	
E		EX	
K		KX	
	KCA		
	KCB		
N		NX	
R	RSCA / RSCB		
S	SCA / SCB		
B	BC		

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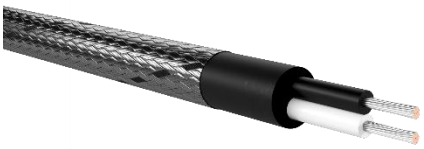
APPLICATION:

Compensation and extension cables (thermoelectric) are an element of the measuring system connecting the thermoelectric sensor with the measuring device, e.g. a controller, indicator or temperature recorder..

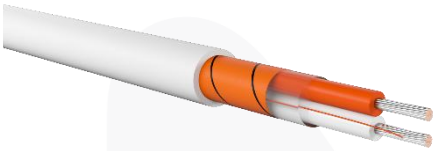
PACKING:



Examples of thermoelectric and compensation cables:



JX PVC/L/PVC/EK 1x2x0,5mm^2



RCA GL/L/GL/SiR 1x2x1mm^2



KX SiR/L/SiR-P 1x2x1,5mm^2

CABLE OPERATING TEMPERATURE RANGE

Material type designation	Material for insulation	Material for the coating	Application temperature range [°C]
PVC/PVC	Heat-resistant polyvinyl chloride	Heat-resistant polyvinyl chloride	-25 ÷ +105
SiR/SiR	Silicone rubber	Silicone rubber	-60 ÷ +200
HFFR/HFFR	Halogen-free cross-linked polymer	Halogen-free cross-linked polymer	-40 ÷ +120
FEP/FEP	Thermoplastic fluoropolymer FEP	Thermoplastic fluoropolymer FEP	-90 ÷ +205
PFA/PFA	Thermoplastic fluoropolymer PFA	Thermoplastic fluoropolymer PFA	-90 ÷ +260
GL/GL	Fiberglass	Fiberglass	-60 ÷ +400
BB/BB	Basalt fiber	Basalt fiber	-60 ÷ +750

Combinations of the above materials are possible upon request.

METHOD OF MARKING COMPENSATION AND THERMOELECTRIC CABLES

	JX	FEP	L	SiR	EK	1 X	2 X 0,5

Typ termoelementu:
JX, termoelektryczny
TX, termoelektryczny
EX, termoelektryczny
KCA, kompensacyjny
KX, termoelektryczny
NX, termoelektryczny
R/SCA, kompensacyjny
BC, kompensacyjny

Rodzaj izolacji:
PVC polichlorek winylu (-25 ÷ +105°C)
SiR kauczuk silikonowy (-60 ÷ +200°C)
HFFR tworzywo bezhal.(-40 ÷ +120°C)
FEP tworzywo fluoroorg.(-90 ÷ +205°C)
PFA tworzywo fluoroorg.(-90 ÷ +260°C)
GL włókno szklane (-60 ÷ +400°C)
BB włókno bazaltowe (-60 ÷ +750°C)

Rodzaj żyły:
D jednodrutowa
L wielodrutowa

Rodzaj powłoki:
PVC polichlorek winylu (-25 ÷ +105°C)
SiR kauczuk silikonowy (-60 ÷ +200°C)
HFFR tworzywo bezhal.(-40 ÷ +120°C)
FEP tworzywo fluoroorg.(-90 ÷ +205°C)
PFA tworzywo fluoroorg.(-90 ÷ +260°C)
GL włókno szklane (-60 ÷ +400°C)
BB włókno bazaltowe (-60 ÷ +750°C)

Oplot/Ekran:
Q oplot drutem stalowy ocynkowanym
EK oplot drutem miedzianym cynowanym

Liczba par:
1 ÷ 8

Przekrój znamionowy żyły:
0,22 mm²
0,5 mm²
0,75 mm²
1,0 mm²
1,5 mm²
2,5 mm²

The outer diameter of the cable, depending on the configuration and complexity of the cable, is provided upon customer request.

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