

# NiCr/NiAl. Heat Resistant PVC/OSCR/PVC/SWA/PVC 2x1.5 INSTRUMENT THERMOCOUPLE EXTENSION

**CABLES** is used to extend the cold end of the hot electrode, that is, the mobile thermocouple, and is connected with the display instrument to form a temperature measurement system. Equivalently adopts the national standard of IEC 584-3 "Thermocouple Part III-Compensation Wire". The products are mainly used in various temperature measuring devices and have been widely used in nuclear power, petroleum, chemical, metallurgy, electric power and other sectors.

# **INSTRUMENT THERMOCOUPLE EXTENSION CABLES** structure

Conductor Construction:	■ solid, □ 7 wires, □ flexible, (multi wires) □ superflexible							
Insulation:	□ PVC 85 °C, ■ PVC 105 °C, □ PE, □ XLPE, □ PP, □ other,							
- Conductor Size:	1.5mm² (for single or triple cable) / 0.75mm² (for multi cable)							
- Core Identification:	■ colored, <b>Green</b> (NiCr) & <b>White</b> (NiAl) ■ Numbered (for multi pair: each core printed with pair number)							
- Max. Length of Lay:	Up to 1.5 mm <sup>2</sup> $\leq 100 \text{ mm}$ 2.5 mm <sup>2</sup> $\leq 150 \text{ mm}$							
- Insulation Tape:	Polyester							
- Individual / Overall Screening:	(Aluminum/polyester tape, metallic side down, in contact with minimum 0.5mm²/7x0.3 tinned copper drain wire)							
- Bedding Material:	■ PVC							
- Cabling:	■ in layers □ in bundles							
- Lead Sheath:	■ no □ yes							
- Galvanized Armour:	□ no ■ yes							
	■ Single wire armour							
- Outer Sheath Material:	PVC color Green							
- Maximum Overall Diameter:	VTA mm							
Cable Marking:	The external surface of outer sheath shall be embossed in 1m intervals with the manufacturer name and cable description as							



### **INSTRUMENT THERMOCOUPLE EXTENSION CABLES** material

产品型号 Compensation		补偿导线及电缆线芯 Compensational wire & cable core		绝缘层着色 compensational wire	配用热电偶分度号		
	正极 Positive pole	负极 Negative pole	正极 Positive pole	负极 Negative pole	Thermocouple graduation		
SC or RC	铜 Cu	铜镍0.6 Cu-Ni	≰I Red	绿 Green	S ( 铂铑10-铂 ) 或R ( 铂铑13-铂 ) S (PtRh10-PT) or R (PtRh13-PT)		
KCA	铁 Fe	铜镍22 Cu-Ni	红 Red	蓝 Blue			
КСВ	铜 Cu	铜 Cu 铜镍40 Cu-Ni		蓝 Blue	K (镍铬-镍硅) K (NiCr-NiSi)		
KX	镍铬10 Ni-Cr 10	镍硅3 Ni-Si	红 Red	黑 Black	90 98 90		
EX	镍铬10 Ni-Cr 10	铜镍45 Cu-Ni	红 Red	棕 Brown	E (镍铬-铜镍) E (NiCr-NiSi)		
JX	铁 Fe	铜镍45 Cu-Ni	红 Red	紫 Vio <b>l</b> et	J (铁-铜镍 ) J (Fe-CuNi)		
TX	铜Cu	铜镍45 Cu-Ni	红 Red	白 White	T(铜-铜镍)T (Cu-CuNi)		
NC	铁 Fe	铜镍18 Cu-Ni	红 Red	灰 Grey	N (镍铬硅-镍硅 ) N (NiCrSi-		
NX	镍铬14硅 Ni-Cr 14 Si	镍硅4 Ni-Si	红 Red	灰 Grey	NiSi)		

# **INSTRUMENT THERMOCOUPLE EXTENSION CABLES** size

## 1、补偿导线;

Compensational Wire

芯数×标称截面mm² Core No.*nominal cross section area	导体种类 Conductor	最大外径 mm Max OD				计算重量 kg/km Calculated weight			
		VV	VPV	FF	FP1F	VV	VPV	FF	FP1F
2×0.5	А	3.7×6.4	4.7×7.4	2.6×4.6	3.2×5.2	30	50	27	45
	R	3.9×6.6	4.9×7.6	2.8×4.8	3.4×5.4	35	55	30	50
2×1.0	Α	5.0×7.7	6.0×8.7	3.0×5.3	3.6×5.9	56	82	39	64
	R	5.1×8.0	6.1×9.0	3.1×5.6	3.7×6.2	60	87	45	69
2×1.5	Α	5.2×8.3	6.2×9.3	3.2×5.8	3.8×6.4	68	93	54	77
	R	5.5×8.7	6.5×9.7	3.4×6.2	4.0×6.8	75	102	60	87
2×2.5	Α	5.7×9.3	6.7×10.3	3.6×6.7	4.2×7.3	94	121	77	103
	R	5.9×9.8	6.9×10.8	4.0×7.3	4.6×7.9	101	133	84	114

When selecting the NiCr/NiAl. Heat Resistant PVC/OSCR/PVC/SWA/PVC 2x1.5 INSTRUMENT

**THERMOCOUPLE EXTENSION CABLES**, you must know the ambient temperature of the thermocouple compensation wire and the on-site industrial and mining conditions, and choose the appropriate compensation wire sheath according to the on-site ambient temperature. Generally, choose polyfluoroethylene sheath when the ambient temperature is  $-25 \sim 105^{\circ}$ C. Cover, when the ambient temperature is  $-60 \sim 205^{\circ}$ C, choose polyperfluoroethylene as the sheath of the compensation wire, and when the ambient temperature is  $-60 \sim 260^{\circ}$ C, choose polytetrafluoroethylene as the sheath of the thermocouple compensation wire. Therefore, you must pay attention to the on-site industrial and mining situation when choosing,