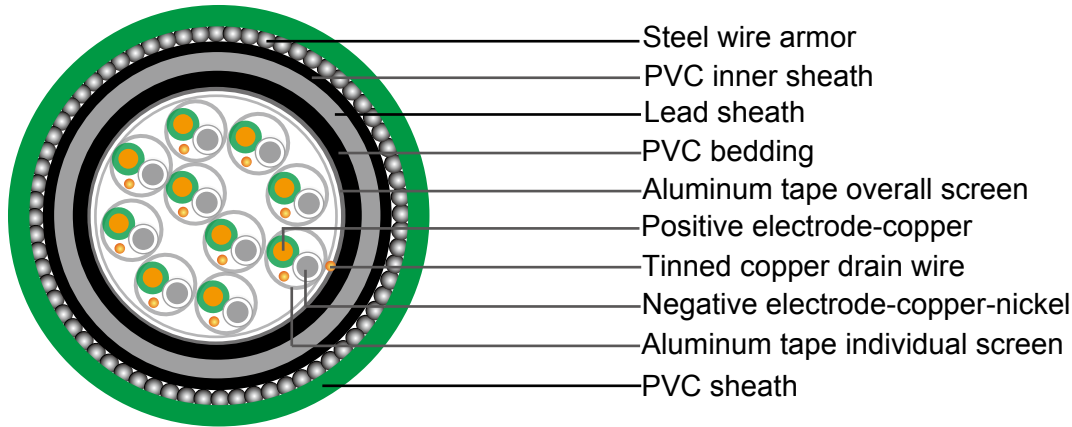




## THERMOCOUPLE CABLES

### Multipair Individual/overall Screen with Armor and Lead Sheath



KCB IS/OS & armored with lead sheath

#### Applications

These cable can be used in cable tray or conduit to connect different types of thermocouple in industrial process controls, refineries, oil and gas plant. Excellent protection against corrosion, humidity and poor vibration resistance.

#### Specification

Conductor: Solid

Type applicable: KX, EX, JX, TX, NX, KCA, KCB, RCA, RCB, SCA, RCB, BC

Insulation: PVC, PE, XLPE or LSZH thermoplastic material

Individual screen: 24  $\mu\text{m}$  aluminium / PETP tape over solid tinned copper drain wire, 0.6 mm

Wrapping: At least 1 layer of plastic tape

Overall screen: 24  $\mu\text{m}$  aluminium / PETP tape over 7-stranded tinned copper drain wire, 0.5 mm<sup>2</sup>

Bedding: PE, PVC or LSZH thermoplastic material

Lead sheath: Lead alloy

Inner sheath: PVC or LSZH thermoplastic material

Armor: Galvanized round steel wires

Outer sheath: PVC or LSZH thermoplastic material

Color code: According to IEC 60584-3

Flame retardancy: IEC 60332-1

Flame propagation: IEC 60332 cat. C

Temperature range: -30°C up to 70°C during operation. -5°C up to 50°C during installation.



### 0.5 mm<sup>2</sup>

No. of Pairs	Insulation Thickness (mm)	Bedding Thickness (mm)	Lead Sheath Thickness (mm)	Inner Sheath Thickness (mm)	Diameter of Armor Wire (mm)	Outer Sheath Thickness (mm)	Nominal O.D. (mm)	Weight* (kg/km)
2	0.4	0.9	1.1	0.8	0.9	1.4	17.3	892
4	0.4	1.1	1.1	0.8	0.9	1.4	18.9	1078
6	0.4	1.2	1.1	0.8	0.9	1.5	21.2	1309
8	0.4	1.2	1.2	0.8	0.9	1.5	22.3	1491
10	0.4	1.2	1.2	0.8	1.25	1.6	25.4	1912
12	0.4	1.2	1.2	0.9	1.25	1.6	25.8	2000
16	0.4	1.3	1.3	0.9	1.25	1.7	28.2	2383
20	0.4	1.3	1.3	0.9	1.25	1.7	29.5	2610
24	0.4	1.3	1.4	1.0	1.25	1.8	32.6	3087

### 0.8 mm<sup>2</sup>

No. of Pairs	Insulation Thickness (mm)	Bedding Thickness (mm)	Lead Sheath Thickness (mm)	Inner Sheath Thickness (mm)	Diameter of Armor Wire (mm)	Outer Sheath Thickness (mm)	Nominal O.D. (mm)	Weight* (kg/km)
2	0.4	0.9	1.1	0.8	0.9	1.4	18.0	970
4	0.4	1.1	1.1	0.8	0.9	1.5	20.2	1204
6	0.4	1.2	1.1	0.8	0.9	1.5	22.3	1451
8	0.4	1.2	1.2	0.8	0.9	1.6	24.6	1848
10	0.4	1.2	1.2	0.9	1.25	1.6	26.9	2137
12	0.4	1.3	1.3	0.9	1.25	1.7	28.2	2383
16	0.4	1.3	1.3	0.9	1.25	1.7	30.0	2690
20	0.4	1.3	1.4	1.0	1.25	1.8	32.1	3092
24	0.4	1.5	1.4	1.0	1.25	1.8	35.2	3581



## THERMOCOUPLE CABLES

1.0 mm<sup>2</sup>

No. of Pairs	Insulation Thickness (mm)	Bedding Thickness (mm)	Lead Sheath Thickness (mm)	Inner Sheath Thickness (mm)	Diameter of Armor Wire (mm)	Outer Sheath Thickness (mm)	Nominal O.D. (mm)	Weight* (kg/km)
2	0.4	1.1	1.1	0.8	0.9	1.4	18.4	1011
4	0.4	1.1	1.1	0.8	0.9	1.5	20.2	1204
6	0.4	1.2	1.2	0.9	0.9	1.6	23.6	1691
8	0.4	1.2	1.2	0.9	1.25	1.6	24.6	1848
10	0.4	1.2	1.3	0.9	1.25	1.7	27.5	2244
12	0.4	1.3	1.3	0.9	1.25	1.7	28.2	2383
16	0.4	1.3	1.4	1.0	1.25	1.7	30.2	2781
20	0.4	1.5	1.4	1.1	1.25	1.8	32.5	3154
24	0.4	1.5	1.5	1.2	1.6	1.9	36.5	3982

1.3 mm<sup>2</sup>

No. of Pairs	Insulation Thickness (mm)	Bedding Thickness (mm)	Lead Sheath Thickness (mm)	Inner Sheath Thickness (mm)	Diameter of Armor Wire (mm)	Outer Sheath Thickness (mm)	Nominal O.D. (mm)	Weight* (kg/km)
2	0.4	1.1	1.1	0.8	0.9	1.5	19.8	1140
4	0.4	1.2	1.2	0.9	0.9	1.5	22.5	1588
6	0.4	1.2	1.2	1.0	1.25	1.6	25.1	1915
8	0.4	1.2	1.3	1.1	1.25	1.6	26.4	2190
10	0.4	1.3	1.3	1.1	1.25	1.7	29.7	2606
12	0.4	1.3	1.4	1.1	1.25	1.7	30.5	2843
16	0.4	1.3	1.4	1.2	1.25	1.8	32.5	3235
20	0.4	1.5	1.5	1.2	1.25	1.9	35.2	3797
24	0.4	1.5	1.5	1.2	1.6	1.9	39.5	4653



1.5 mm<sup>2</sup>

No. of Pairs	Insulation Thickness (mm)	Bedding Thickness (mm)	Lead Sheath Thickness (mm)	Inner Sheath Thickness (mm)	Diameter of Armor Wire (mm)	Outer Sheath Thickness (mm)	Nominal O.D. (mm)	Weight* (kg/km)
2	0.5	1.1	1.2	0.9	0.9	1.5	21.1	1303
4	0.5	1.2	1.2	1.0	0.9	1.5	23.7	1741
6	0.5	1.2	1.3	1.1	1.25	1.6	26.9	2193
8	0.5	1.3	1.3	1.1	1.25	1.7	28.7	2481
10	0.5	1.3	1.4	1.2	1.25	1.7	31.9	2995
12	0.5	1.3	1.4	1.2	1.25	1.7	32.6	3164
16	0.5	1.5	1.5	1.3	1.25	1.9	36.3	3863
20	0.5	1.5	1.6	1.3	1.6	1.9	39.2	4686
24	0.5	1.7	1.6	1.3	1.6	2.0	43.6	5471

\*The number here is just approx. weight. It changes according to the insulation material and the conductor used in different type of extension cable and compensating cable.

