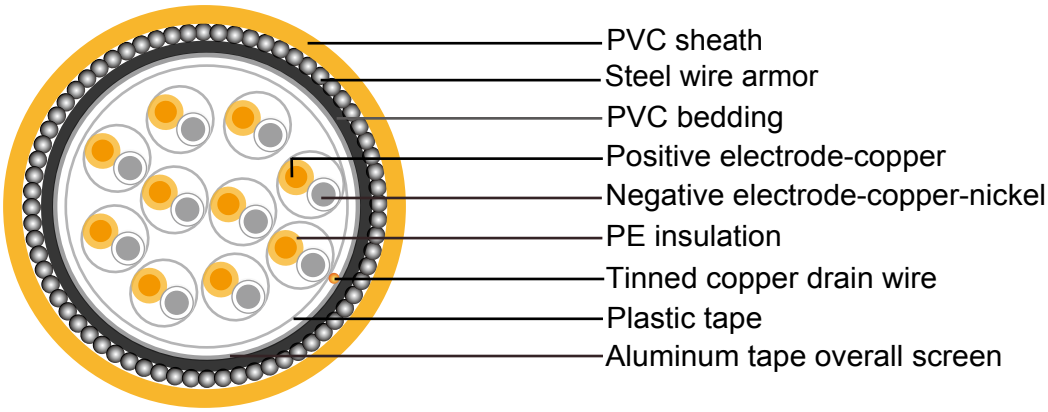
Single pair/multipair Overall Screen with Armor



SCB OS & armored

Application

These cables are used in thermocouple circuits, petrochemical plants, utilities and industrial plants.

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

Wrapping: At least 1 layer of plastic tape

Overall screen: 24 µm aluminium / PETP tape over 7-stranded tinned copper drain wire, 0.5 mm²

Bedding: PE, 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 mm²

Conductor Size	No. of Pairs	Insulation Thickness (mm)	Bedding Thickness (mm)	Diameter of Armor Wire (mm)	Outer Sheath Thickness (mm)	Nominal O.D. (mm)	Weight* (kg/km)
0.5	1	0.4	0.8	0.9	1.3	9.6	206
0.5	2	0.4	0.8	0.9	1.4	12.1	295
0.5	4	0.4	0.9	0.9	1.4	13.4	374
0.5	6	0.4	1.1	0.9	1.4	15.4	480
0.5	8	0.4	1.1	0.9	1.5	16.3	546
0.5	10	0.4	1.2	0.9	1.5	17.9	656
0.5	12	0.4	1.2	0.9	1.5	18.5	703
0.5	16	0.4	1.2	1.25	1.6	21.1	975
0.5	20	0.4	1.2	1.25	1.6	22.5	1093
0.5	24	0.4	1.3	1.25	1.7	24.3	1285

0.8 mm²

Conductor Size	No. of Pairs	Insulation Thickness (mm)	Bedding Thickness (mm)	Diameter of Armor Wire (mm)	Outer Sheath Thickness (mm)	Nominal O.D. (mm)	Weight* (kg/km)
0.8	1	0.4	0.8	0.9	1.3	10.0	227
0.8	2	0.4	0.9	0.9	1.4	13.0	343
0.8	4	0.4	0.9	0.9	1.4	14.3	431
0.8	6	0.4	1.1	0.9	1.5	16.7	567
0.8	8	0.4	1.2	0.9	1.5	17.6	657
0.8	10	0.4	1.2	0.9	1.6	19.4	788
0.8	12	0.4	1.2	1.25	1.6	20.8	999
0.8	16	0.4	1.2	1.25	1.7	22.9	1175
0.8	20	0.4	1.3	1.25	1.7	24.8	1347
0.8	24	0.4	1.3	1.25	1.7	26.3	1556

1.0 mm²

Conductor Size	No. of Pairs	Insulation Thickness (mm)	Bedding Thickness (mm)	Diameter of Armor Wire (mm)	Outer Sheath Thickness (mm)	Nominal O.D. (mm)	Weight* (kg/km)
1.0	1	0.4	0.8	0.9	1.3	10.3	240
1.0	2	0.4	0.9	0.9	1.4	13.4	366
1.0	4	0.4	1.1	0.9	1.4	15.1	489
1.0	6	0.4	1.2	0.9	1.5	17.4	629
1.0	8	0.4	1.2	0.9	1.5	18.2	720
1.0	10	0.4	1.2	1.25	1.6	20.9	1016
1.0	12	0.4	1.2	1.25	1.6	21.5	1094
1.0	16	0.4	1.3	1.25	1.7	24.0	1312
1.0	20	0.4	1.3	1.25	1.7	25.7	1490
1.0	24	0.4	1.3	1.25	1.7	27.3	1727

1.3 mm²

Conductor Size	No. of Pairs	Insulation Thickness (mm)	Bedding Thickness (mm)	Diameter of Armor Wire (mm)	Outer Sheath Thickness (mm)	Nominal O.D. (mm)	Weight* (kg/km)
1.3	1	0.4	0.8	0.9	1.3	10.6	258
1.3	2	0.4	0.9	0.9	1.4	14.6	399
1.3	4	0.4	1.1	0.9	1.5	16.8	546
1.3	6	0.4	1.2	0.9	1.5	19.3	701
1.3	8	0.4	1.2	0.9	1.6	20.4	817
1.3	10	0.4	1.2	1.25	1.6	23.2	1136
1.3	12	0.4	1.2	1.25	1.7	24.2	1240
1.3	16	0.4	1.3	1.25	1.7	26.8	1484
1.3	20	0.4	1.3	1.25	1.7	28.9	1697
1.3	24	0.4	1.5	1.25	1.8	31.5	2025

1.5 mm²

Conductor Size	No. of Pairs	Insulation Thickness (mm)	Bedding Thickness (mm)	Diameter of Armor Wire (mm)	Outer Sheath Thickness (mm)	Nominal O.D. (mm)	Weight* (kg/km)
1.5	1	0.5	0.8	0.9	1.3	11.2	284
1.5	2	0.5	1.1	0.9	1.4	16.1	467
1.5	4	0.5	1.2	0.9	1.5	18.3	627
1.5	6	0.5	1.2	0.9	1.6	21.2	802
1.5	8	0.5	1.2	1.25	1.6	22.9	1082
1.5	10	0.5	1.3	1.25	1.7	25.7	1319
1.5	12	0.5	1.3	1.25	1.7	26.6	1430
1.5	16	0.5	1.3	1.25	1.7	29.3	1697
1.5	20	0.5	1.5	1.25	1.8	32.4	2000
1.5	24	0.5	1.5	1.6	1.9	35.5	2598

*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.