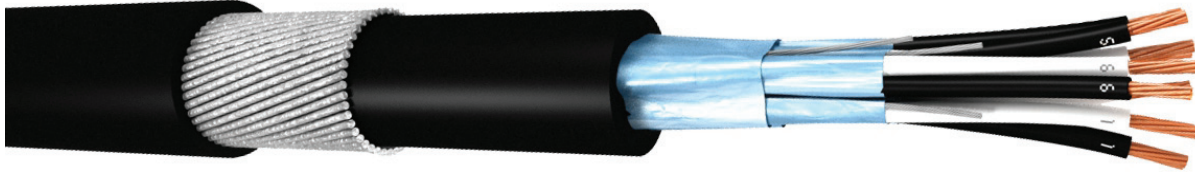


SIGNAL & INSTRUMENTATION CABLE

PVC / ISCR / OSCR / PVC / SWA / PVC - FR
 Armour, Individual and Overall Screen

BS EN 50288-7



Construction




1. Stranded plain copper conductor
2. Polyvinylchloride Insulated (PVC)
3. Core twisted in pairs
4. Colour coding for pair : black/white, continuously numbered
 triad : black/white/red, continuously numbered
5. Individual screen of plastic bonded aluminium mylar tape with tinned copper drain wire, approx. 25% overlapped, polyester tape wrapping
6. Screened pairs twisted in concentric layers
7. Overall screen of plastic bonded aluminium mylar tape with tinned copper drain wire, approx. 25% overlapped, polyester tape wrapping
8. Bedding of polyvinylchloride (PVC)
9. Galvanized steel wire armour
10. PVC outer sheath, flame retardant to IEC 60332-3C, black or blue colour






Available on request : Tinned conductors, PE, XLPE or EPR insulations, sheathing of LSOH, oil & hydrocarbon resistant, anti termite, anti rodent, and other special sheath performance

Application

For the transmission of signals of measuring data in power stations and industrial plants
 This cable is suitable for fixed indoor installations and for outdoor.

Electrical and technical data

-  Working voltage : max. 500 V
-  Test voltage core/core : 2000V 50Hz 1 min.
 core/screen : 1000V 50Hz 1 min.
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	0.5 mm ²	0.75 mm ²	1.0 mm ²	1.5 mm ²
Conductor resistance	max 39.7 Ω/km	max 26.5 Ω/km	max 18.4 Ω/km	max 12.3 Ω/km
L/R ratio	25 μHΩ	25 μHΩ	40 μHΩ	40 μHΩ
-  Insulation resistance : min 25 MΩ/km
-  Mutual capacitance at 1 kHz : max 250 pF/km
-  Temperature range, fixed : -20°C to +70°C
-  Minimum bending radius : 7.5 x cable diameter
-  Flame retardancy : IEC-60332-1
 Flame propagation : IEC-60332-3 cat C

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Data Sheet						
No. of pairs x cross section (mm ²)	Conductor no / mm	Thickness of insulation nom. (mm)	Steel Wire diameter nom. (mm)	Thickness of sheath nom. (mm)	Overall diameter (approx.) nom. (mm)	Cable weight (approx.) nom. (kg/km)
2 x 2 x 0.5	7/0.3	0.6	0.9	1.4	15.3	415
4 x 2 x 0.5	7/0.3	0.6	0.9	1.1	16.5	494
6 x 2 x 0.5	7/0.3	0.6	1.25	1.2	18.9	621
8 x 2 x 0.5	7/0.3	0.6	1.25	1.2	20.8	822
10 x 2 x 0.5	7/0.3	0.6	1.25	1.4	24.8	1038
12 x 2 x 0.5	7/0.3	0.6	1.25	1.4	24.8	1089
16 x 2 x 0.5	7/0.3	0.6	1.25	1.5	27.3	1301
20 x 2 x 0.5	7/0.3	0.6	1.25	1.6	30.0	1527
24 x 2 x 0.5	7/0.3	0.6	1.6	1.7	34.8	2029
2 x 2 x 0.75	7/0.37	0.6	0.9	1.1	15.4	426
4 x 2 x 0.75	7/0.37	0.6	0.9	1.1	17.3	542
6 x 2 x 0.75	7/0.37	0.6	1.25	1.2	20.7	808
8 x 2 x 0.75	7/0.37	0.6	1.25	1.3	22.3	938
10 x 2 x 0.75	7/0.37	0.6	1.25	1.4	26.4	1168
12 x 2 x 0.75	7/0.37	0.6	1.25	1.4	26.4	1232
16 x 2 x 0.75	7/0.37	0.6	1.25	1.5	29.0	1472
20 x 2 x 0.75	7/0.37	0.6	1.6	1.6	32.6	1920
24 x 2 x 0.75	7/0.37	0.6	1.6	1.8	37.2	2309
2 x 2 x 1	7/0.43	0.6	0.9	1.1	16.2	466
4 x 2 x 1	7/0.43	0.6	0.9	1.2	18.4	607
6 x 2 x 1	7/0.43	0.6	1.25	1.3	22.1	910
8 x 2 x 1	7/0.43	0.6	1.25	1.3	23.5	1039
10 x 2 x 1	7/0.43	0.6	1.25	1.5	28.1	1309
12 x 2 x 1	7/0.43	0.6	1.25	1.5	28.1	1386
16 x 2 x 1	7/0.43	0.6	1.25	1.6	30.9	1664
20 x 2 x 1	7/0.43	0.6	1.6	1.7	35.1	2207
24 x 2 x 1	7/0.43	0.6	1.6	1.9	39.6	2600
2 x 2 x 1.5	7/0.52	0.6	0.9	1.1	17.3	526
4 x 2 x 1.5	7/0.52	0.6	1.25	1.2	20.4	809
6 x 2 x 1.5	7/0.52	0.6	1.25	1.3	23.7	1046
8 x 2 x 1.5	7/0.52	0.6	1.25	1.4	25.6	1229
10 x 2 x 1.5	7/0.52	0.6	1.25	1.6	30.5	1535
12 x 2 x 1.5	7/0.52	0.6	1.25	1.6	30.5	1637
16 x 2 x 1.5	7/0.52	0.6	1.6	1.7	34.8	2234
20 x 2 x 1.5	7/0.52	0.6	1.6	1.8	38.2	2623
24 x 2 x 1.5	7/0.52	0.6	2	2.0	43.9	3379

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Data Sheet						
No. of triads x cross section (mm ²)	Conductor no / mm	Thickness of insulation nom. (mm)	Steel Wire diameter nom. (mm)	Thickness of sheath nom. (mm)	Overall diameter (approx.) nom. (mm)	Cable weight (approx.) nom. (kg/km)
2 x 3 x 0.5	7/0.3	0.6	0.9	1.1	15.9	451
4 x 3 x 0.5	7/0.3	0.6	0.9	1.2	18.0	582
6 x 3 x 0.5	7/0.3	0.6	1.25	1.3	21.6	871
8 x 3 x 0.5	7/0.3	0.6	1.25	1.3	23.0	995
10 x 3 x 0.5	7/0.3	0.6	1.25	1.5	27.4	1248
12 x 3 x 0.5	7/0.3	0.6	1.25	1.5	27.4	1319
16 x 3 x 0.5	7/0.3	0.6	1.25	1.6	30.1	1579
20 x 3 x 0.5	7/0.3	0.6	1.6	1.7	33.9	2064
24 x 3 x 0.5	7/0.3	0.6	1.6	1.8	38.4	2454
2 x 3 x 0.75	7/0.37	0.6	0.9	1.1	16.7	495
4 x 3 x 0.75	7/0.37	0.6	0.9	1.2	19.0	651
6 x 3 x 0.75	7/0.37	0.6	1.25	1.3	22.8	974
8 x 3 x 0.75	7/0.37	0.6	1.25	1.4	24.5	1133
10 x 3 x 0.75	7/0.37	0.6	1.25	1.5	29.1	1411
12 x 3 x 0.75	7/0.37	0.6	1.25	1.5	29.1	1501
16 x 3 x 0.75	7/0.37	0.6	1.6	1.7	33.0	2023
20 x 3 x 0.75	7/0.37	0.6	1.6	1.8	36.6	2418
24 x 3 x 0.75	7/0.37	0.6	1.6	1.9	41.1	2828
2 x 3 x 1	7/0.43	0.6	0.9	1.1	17.5	539
4 x 3 x 1	7/0.43	0.6	1.25	1.2	20.7	836
6 x 3 x 1	7/0.43	0.6	1.25	1.4	24.2	1092
8 x 3 x 1	7/0.43	0.6	1.25	1.4	26.0	1276
10 x 3 x 1	7/0.43	0.6	1.25	1.6	31.0	1595
12 x 3 x 1	7/0.43	0.6	1.25	1.6	31.0	1705
16 x 3 x 1	7/0.43	0.6	1.6	1.7	35.3	2318
20 x 3 x 1	7/0.43	0.6	1.6	1.9	39.0	2750
24 x 3 x 1	7/0.43	0.6	2.0	2.0	44.6	3514
2 x 3 x 1.5	7/0.52	0.6	0.9	1.2	18.9	623
4 x 3 x 1.5	7/0.52	0.6	1.25	1.3	22.3	972
6 x 3 x 1.5	7/0.52	0.6	1.25	1.4	26.2	1287
8 x 3 x 1.5	7/0.52	0.6	1.25	1.5	28.2	1517
10 x 3 x 1.5	7/0.52	0.6	1.6	1.7	34.9	2152
12 x 3 x 1.5	7/0.52	0.6	1.6	1.7	34.9	2298
16 x 3 x 1.5	7/0.52	0.6	1.6	1.8	38.4	2779
20 x 3 x 1.5	7/0.52	0.6	1.6	2.0	42.4	3300
24 x 3 x 1.5	7/0.52	0.6	2.0	2.2	49.2	4295