



Designed for connecting, measuring and control use in fixed or flexible applications with unrestricted mobility without forced movement or exposure to tensile load. Suitable for installation in dry and moist rooms, outdoor installation not recommended.

Numbered version commonly available in LSZH (low smoke zero halogen) for increased fire safety or with tough PUR (polyurethane) outer sheath for use outdoors and under harsh conditions.

Construction

fine stranded plain copper conductors
polyvinylchloride (PVC) core insulation
cores twisted in layers
grey oil resistant PVC outer sheath

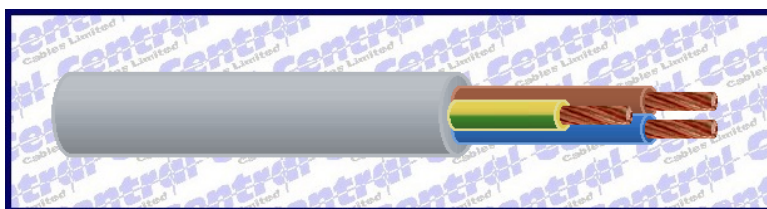
Technical

conductor stranding:	according to class 5 (VDE 0295 / IEC 60228 / BS EN 60228:2005)
bend radius:	4 x overall diameter (O/D) fixed, 15 x O/D flexing
voltage rating:	300/500V operating, 2000V test
current rating:	see YY, SY & CY derivative chart
temperature range:	-15°C to +80°C flexible, -40°C to +80°C static, max. +90°C at conductor
standards:	construction generally to BS EN 50525-2-11 & VDE 0250 flame retardant according to IEC 60332-1
core identification:	OB, usually 2 core = coloured to VDE 0293 without earth (green/yellow) JB, 3-5 cores = coloured to VDE0293 with earth (inc. in core count) JB, 6+ cores = coloured to JB Chart with earth (inc. in core count)

Number of Cores	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)	Number of Cores	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)
2	0.5	5.0	40	14	0.5	10.0	152
3	0.5	5.3	47	16	0.5	10.5	171
4	0.5	5.8	58	21	0.5	12.0	232
5	0.5	6.3	75	24	0.5	12.9	254
6	0.5	6.9	77	27	0.5	13.4	295
7	0.5	7.3	81	30	0.5	14.3	320
8	0.5	8.1	90	35	0.5	15.3	390
12	0.5	9.3	134	40	0.5	16.5	430



Number of Cores	Conductor Area (mm ²)	Overall Diameter (mm)	Overall Weight (kg/km)	Number of Cores	Conductor Area (mm ²)	Overall Diameter (mm)	Overall Weight (kg/km)
52	0.5	17.7	532	14	1.0	10.8	261
61	0.5	19.8	610	16	1.0	13.5	310
80	0.5	22.0	791	18	1.0	14.3	382
100	0.5	24.5	986	20	1.0	15.5	411
				24	1.0	17.4	517
2	0.75	5.2	48	25	1.0	17.9	520
3	0.75	5.8	66	34	1.0	20.4	678
4	0.75	6.5	78	48	1.0	23.5	904
5	0.75	7.0	91	56	1.0	24.8	938
7	0.75	7.7	116	61	1.0	26.0	1070
9	0.75	9.2	144	80	1.0	31.5	1446
10	0.75	9.9	165	100	1.0	36.0	1832
12	0.75	10.4	187				
14	0.75	11.6	228	2	1.5	6.3	78
15	0.75	11.8	248	3	1.5	6.8	95
16	0.75	12.2	267	4	1.5	7.5	117
18	0.75	13.0	280	5	1.5	8.5	152
21	0.75	13.9	294	7	1.5	9.2	170
25	0.75	15.7	395	8	1.5	11.3	201
32	0.75	16.3	462	12	1.5	12.2	284
40	0.75	19.6	613	14	1.5	14.0	338
50	0.75	21.0	780	16	1.5	15.0	428
61	0.75	21.9	904	18	1.5	15.8	482
80	0.75	26.8	1120	20	1.5	17.0	563
100	0.75	31.0	1390	25	1.5	19.5	654
				32	1.5	21.2	796
2	1.0	5.7	57	34	1.5	22.3	868
3	1.0	6.2	68	42	1.5	24.0	1060
4	1.0	6.8	85	56	1.5	27.1	1400
5	1.0	7.5	110	61	1.5	28.0	1520
7	1.0	8.4	127	80	1.5	33.5	1935
9	1.0	9.5	167	80	1.5	35.0	2230
10	1.0	10.0	186	100	1.5	37.5	2460
12	1.0	10.6	216				



Number of Cores	Conductor Area (mm ²)	Overall Diameter (mm)	Overall Weight (kg/km)	Number of Cores	Conductor Area (mm ²)	Overall Diameter (mm)	Overall Weight (kg/km)
2	2.5	7.7	115	5	10.0	18.8	914
3	2.5	8.5	148	7	10.0	21.0	1082
4	2.5	9.3	236				
5	2.5	10.4	263	3	16.0	19.0	912
7	2.5	11.5	278	4	16.0	21.3	1087
11	2.5	14.7	428	5	16.0	24.0	1370
16	2.5	19.0	730	7	16.0	26.0	1442
25	2.5	24.7	1080				
32	2.5	26.9	1340	3	25.0	23.3	1388
50	2.5	34.0	2040	4	25.0	26.8	1582
61	2.5	36.2	2428	5	25.0	30.0	1998
2	4.0	9.5	187	3	35.0	26.6	1766
3	4.0	10.6	235	4	35.0	30.0	2106
4	4.0	11.4	299	5	35.0	33.5	2485
5	4.0	12.6	363				
7	4.0	14.0	484	3	50.0	31.0	2556
11	4.0	18.3	687	4	50.0	36.3	2443
				5	50.0	38.6	3936
3	6.0	12.0	415				
4	6.0	13.0	480	4	70.0	41.0	4050
5	6.0	14.5	583				
7	6.0	16.0	638	4	95.0	46.4	5626
3	10.0	15.8	682	4	120.0	53.7	6694
4	10.0	16.7	737				

PVC properties: fairly tough & flexible material with fair abrasive resistance, good resistance to water, aqueous salt solutions, acids and alkalis, moderate/poor resistance against organic solvents and oils. Oil resistant PVC (polyvinylchloride) is commonly available.

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