



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.

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. +70°C at conductor
standards:	construction generally to BS6500 & VDE0250 flame retardant according to IEC 60332-1 oil resistant according to EN 50525-2-11
core identification:	OZ, usually 2 core = numbered black cores without earth (green/yellow) NR, usually 3+ cores = numbered black cores with earth (inc. in core count)

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	0.5	4.7	33	14	0.5	10.2	168
3	0.5	5.1	47	16	0.5	10.5	180
4	0.5	5.5	58	18	0.5	11.5	216
5	0.5	6.2	75	21	0.5	12.8	249
6	0.5	6.7	81	25	0.5	13.3	263
7	0.5	6.8	93	30	0.5	14.4	312
8	0.5	7.9	115	34	0.5	15.7	398
10	0.5	8.6	142	40	0.5	17.1	451
12	0.5	9.4	150	42	0.5	17.5	470

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)
50	0.5	18.8	535	8	1.0	9.7	158
52	0.5	19.2	552	9	1.0	10.4	182
61	0.5	19.7	601	10	1.0	10.5	210
65	0.5	20.9	668	12	1.0	10.6	232
80	0.5	23.3	829	14	1.0	11.5	271
100	0.5	29.0	980	16	1.0	12.0	300
				18	1.0	13.0	328
2	0.75	5.2	43	19	1.0	13.6	346
3	0.75	5.8	66	20	1.0	13.8	357
4	0.75	6.3	78	21	1.0	14.4	444
5	0.75	6.9	91	25	1.0	14.9	531
6	0.75	7.4	108	34	1.0	17.5	549
7	0.75	7.6	124	41	1.0	19.1	664
8	0.75	9.0	143	42	1.0	19.2	668
9	0.75	9.7	162	50	1.0	21.0	794
10	0.75	9.8	185	56	1.0	22.2	862
12	0.75	10.1	191	61	1.0	22.5	934
14	0.75	11.0	195	65	1.0	23.5	1006
15	0.75	11.2	229	80	1.0	28.2	1354
18	0.75	12.0	283	100	1.0	31.9	1644
20	0.75	13.2	293				
21	0.75	13.3	320	2	1.5	6.3	67
25	0.75	14.0	388	3	1.5	6.8	95
32	0.75	15.5	441	4	1.5	7.4	117
34	0.75	16.2	448	5	1.5	7.9	152
41	0.75	17.9	533	6	1.5	8.5	183
42	0.75	18.0	554	7	1.5	8.9	192
50	0.75	19.6	655	8	1.5	10.9	205
61	0.75	21.1	876	9	1.5	11.4	242
65	0.75	22.1	837	10	1.5	11.8	252
80	0.75	26.5	1130	12	1.5	12.1	312
100	0.75	31.4	1320	14	1.5	12.9	349
				16	1.5	13.7	403
2	1.0	5.5	50	18	1.5	14.6	450
3	1.0	6.2	68	20	1.5	16.3	507
4	1.0	6.7	85	21	1.5	16.5	573
5	1.0	7.3	110	25	1.5	17.2	638
6	1.0	8.1	135	32	1.5	29.7	728
7	1.0	8.7	146	34	1.5	20.8	820

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)
42	1.5	21.5	888	5	4.0	12.0	363
50	1.5	23.6	1051	7	4.0	13.6	488
61	1.5	25.5	1259	12	4.0	19.6	790
65	1.5	26.0	1272				
80	1.5	33.0	1890	3	6.0	11.7	415
100	1.5	38.2	2350	4	6.0	12.8	480
				5	6.0	14.4	583
2	2.5	7.6	101	7	6.0	16.0	782
3	2.5	8.3	148				
4	2.5	9.1	236	3	10.0	14.7	682
5	2.5	10.2	263	4	10.0	16.3	737
7	2.5	11.3	298	5	10.0	18.2	914
8	2.5	13.2	339	7	10.0	20.1	1191
10	2.5	14.8	375				
12	2.5	15.0	522	3	16.0	20.0	827
14	2.5	16.1	588	4	16.0	21.1	1087
16	2.5	18.4	665	5	16.0	22.4	1370
18	2.5	18.1	749	7	16.0	25.6	1779
20	2.5	20.8	832				
21	2.5	21.9	928	3	25.0	22.8	1186
25	2.5	21.1	1024	4	25.0	25.7	1582
34	2.5	24.7	1150	5	25.0	28.7	1998
40	2.5	29.1	1499	7	25.0	34.0	2477
42	2.5	29.3	1525				
50	2.5	32.1	1823	3	35.0	25.9	1585
61	2.5	34.7	2750	4	35.0	27.2	2106
100	2.5	46.0	4450	5	35.0	34.7	2485
2	4.0	9.9	185	3	50.0	31.5	2550
3	4.0	10.1	235	4	50.0	36.7	2963
4	4.0	11.0	299	5	50.0	37.0	3936

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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