



Flexible cables designed for junction or connecting applications in control, measuring and signalling technology. The copper wire braid provides protection against electrical interference.

Suitable for installation indoors in dry or moist areas, outdoor installation not recommended.

May be available in LSZH (low smoke zero halogen) for increased fire safety.

Construction

- fine stranded plain copper conductors
- PVC (polyvinylchloride) core insulation
- cores twisted in layers with film wrapping
- tinned copper wire braid screen
- grey PVC outer sheath

Technical

conductor stranding:	0.14mm ² = 18x 0.10mm, 0.34mm ² = 7x 0.25mm or 19x 0.16mm others = according to class 5 (VDE 0295 / IEC 60228 / BS EN 60228:2005)
bend radius:	under 12mm overall diameter (O/D) = 5 x O/D fixed, 10 x O/D flexing 12mm O/D to 19.9mm O/D = 7.5 x O/D fixed, 15 x O/D flexing 20mm O/D and above = 10 x O/D fixed, 20 x O/D flexing
voltage rating:	0.14mm ² to 0.34mm ² = 300V operating, 1200V test 0.5mm ² and above = 500V operating, 1500V test
current rating:	see YY, SY & CY derivative chart
temperature range:	-15°C to +80°C flexible, -30°C to +80°C static
standards:	construction generally to VDE 0812 flame retardant according to IEC 60332-1
core identification:	coloured according to DIN 47100

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)
1	0.14	3.6	17	10	0.14	6.0	58
2	0.14	3.9	21	12	0.14	6.2	61
3	0.14	4.0	34	14	0.14	6.5	65
4	0.14	4.3	40	15	0.14	6.9	70
5	0.14	4.7	47	16	0.14	7.0	77
6	0.14	5.0	52	18	0.14	7.3	79
7	0.14	5.1	54	20	0.14	7.7	89
8	0.14	5.4	56	21	0.14	7.9	96

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)
24	0.14	8.5	106	61	0.25	15.4	393
27	0.14	9.1	122	80	0.25	20.0	558
30	0.14	9.3	129	100	0.25	22.8	710
32	0.14	9.5	138				
36	0.14	9.7	148	1	0.34	3.2	16
40	0.14	10.3	165	2	0.34	5.0	31
48	0.14	10.6	183	3	0.34	5.1	38
50	0.14	11.3	196	4	0.34	5.6	46
52	0.14	12.1	200	5	0.34	6.0	54
56	0.14	12.4	212	6	0.34	6.5	67
61	0.14	12.5	243	7	0.34	6.7	70
80	0.14	16.4	486	8	0.34	7.0	76
100	0.14	17.9	578	10	0.34	8.1	104
				12	0.34	8.4	128
1	0.25	3.1	14	14	0.34	8.8	141
2	0.25	4.5	28	15	0.34	9.0	152
3	0.25	4.7	36	16	0.34	9.2	155
4	0.25	5.0	43	18	0.34	10.1	166
5	0.25	5.5	47	20	0.34	10.5	195
6	0.25	5.9	59	21	0.34	10.8	202
7	0.25	6.1	61	24	0.34	11.9	234
8	0.25	6.5	66	27	0.34	12.2	246
10	0.25	7.4	80	30	0.34	12.8	282
12	0.25	7.6	91	32	0.34	13.3	298
14	0.25	8.0	120	36	0.34	13.8	322
15	0.25	8.2	127	40	0.34	14.2	352
16	0.25	8.5	135	42	0.34	15.1	371
18	0.25	8.8	150	48	0.34	15.5	430
20	0.25	9.6	157	50	0.34	15.9	439
21	0.25	9.7	163	61	0.34	16.9	510
24	0.25	10.4	161	80	0.34	21.2	669
27	0.25	11.0	172	100	0.34	26.5	836
30	0.25	11.2	187				
32	0.25	11.4	201	1	0.5	3.6	21
36	0.25	11.7	217	2	0.5	5.4	36
44	0.25	14.3	249	3	0.5	5.8	45
48	0.25	14.5	274	4	0.5	6.2	54
50	0.25	14.6	299	5	0.5	6.7	67
52	0.25	14.8	310	6	0.5	7.3	81
56	0.25	15.2	348	7	0.5	7.4	84

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)
8	0.5	8.0	111	1	0.75	3.8	27
10	0.5	9.2	134	2	0.75	5.6	62
12	0.5	9.5	156	3	0.75	6.3	73
14	0.5	11.7	169	4	0.75	7.0	95
15	0.5	12.0	180	5	0.75	7.4	120
16	0.5	12.3	195	6	0.75	8.0	145
18	0.5	12.5	215	7	0.75	8.3	158
20	0.5	12.7	234	8	0.75	8.6	163
21	0.5	12.8	251	10	0.75	11.0	195
24	0.5	13.1	288	12	0.75	11.2	232
25	0.5	13.4	313	14	0.75	12.0	260
27	0.5	14.2	321	16	0.75	12.5	296
30	0.5	14.7	348	18	0.75	12.9	315
32	0.5	15.2	373	20	0.75	14.9	364
36	0.5	15.7	405	24	0.75	15.2	398
40	0.5	16.3	440	25	0.75	15.6	404
42	0.5	17.1	487	30	0.75	16.4	490
44	0.5	17.6	505	32	0.75	16.7	520
48	0.5	18.0	532	36	0.75	17.2	606
50	0.5	18.3	552	40	0.75	17.9	672
52	0.5	18.5	566	42	0.75	18.2	693
56	0.5	19.4	618	50	0.75	19.5	807
61	0.5	19.8	659	61	0.75	21.5	942
80	0.5	23.0	864	80	0.75	27.4	1190
100	0.5	25.9	1050	100	0.75	31.2	1463

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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