



Designed for constantly moving applications, for use in free movement without tensile stress and in drag-chains. Robust insulation material is used to prevent breakage due to bending so the cable may not feel extra flexible. The overall braid screen provides protection against electronic interference. Suitable for installation indoors in dry or damp areas.

PUR (polyurethane) sheathed versions are often available for use outdoors or under harsh conditions.

Construction

extra fine stranded plain copper conductors
PVC or polypropylene (PP) core insulation
cores twisted in layers with textile wrapping
optional bedding & tinned copper braid screen
grey polyvinylchloride (PVC) outer sheath

Technical

conductor stranding:	according to class 6 (VDE 0295 / IEC 60228 / BS EN 60228:2005)
bend radius:	4x overall diameter (O/D) fixed, 7.5x O/D flexing
voltage rating:	300/500V operating, 4000V test
current rating:	see YY, SY & CY derivative chart
temperature range:	-5°C to +70°C flexible, -40°C to +70°C static
standards:	construction generally to VDE 0245 & VDE 0285
	flame retardant according to IEC 60332-1
core identification:	OZ, usually 2 core = numbered black cores without earth (green/yellow)
	JZ, 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	7.7	79	36	0.5	18.8	535
3	0.5	8.0	83	42	0.5	20.1	602
4	0.5	8.2	92	50	0.5	21.3	716
5	0.5	9.4	116	61	0.5	23.3	810
7	0.5	10.5	158				
12	0.5	12.5	220	2	0.75	8.5	87
14	0.5	13.0	251	3	0.75	8.8	95
16	0.5	13.6	278	4	0.75	9.2	127
18	0.5	14.2	305	5	0.75	10.1	143
25	0.5	16.2	505	7	0.75	11.6	201
34	0.5	18.3	518	10	0.75	12.7	239

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)
12	0.75	13.5	283	2	1.5	10.5	130
14	0.75	13.9	311	3	1.5	10.8	168
16	0.75	14.3	342	4	1.5	11.6	206
18	0.75	15.9	394	5	1.5	12.4	245
20	0.75	17.2	425	7	1.5	14.8	345
21	0.75	17.5	438	12	1.5	17.8	458
25	0.75	18.5	515	16	1.5	19.3	528
34	0.75	21.8	686	18	1.5	21.8	635
36	0.75	22.6	720	25	1.5	25.6	985
42	0.75	23.5	795				
50	0.75	24.8	899	3	2.5	13.0	254
61	0.75	26.7	1042	4	2.5	14.4	318
				5	2.5	16.1	387
2	1.0	9.8	116	7	2.5	18.3	498
3	1.0	10.4	144				
4	1.0	10.6	168	3	4.0	15.2	374
5	1.0	11.6	190	4	4.0	16.8	446
7	1.0	13.4	245	5	4.0	18.8	547
12	1.0	15.4	365				
16	1.0	16.7	424	4	6.0	19.5	596
18	1.0	17.5	505	5	6.0	21.0	762
25	1.0	20.7	667				
34	1.0	23.6	848	4	10.0	22.8	890
41	1.0	25.2	1015	5	10.0	25.1	1016
50	1.0	27.4	1217				
65	1.0	32.3	1510	4	16.0	28.7	1374
				5	16.0	31.8	1831

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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