



These flexible cables are designed measuring and control purposes in tool machinery, conveyor belts and production lines etc.

The bedded copper wire braid screen provides protection against electrical interference.

Suitable for internal or external applications in dry, moist or wet areas. Not recommended for direct burial or underwater installation.

Construction

fine stranded plain copper conductors

PVC (polyvinylchloride) core insulation

grey PVC bedding

tinned copper wire braid screen

black UV & oil resistant PVC outer sheath

Technical

conductor stranding:	according to class 5 (VDE 0295 / IEC 60228 / BS EN 60228:2005)
bend radius:	6 x overall diameter (O/D) fixed, 20 x O/D flexing
voltage rating:	600/1000V operating, 4000V 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 VDE 0262/12.95 and VDE 0281 part 13
	flame retardant according to IEC 60332-1
	oil resistant according to EN 60811-2-11
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	8.1	120	2	0.75	9.0	142
3	0.5	8.4	166	3	0.75	9.2	155
4	0.5	9.4	190	4	0.75	10.2	214
5	0.5	10.0	219	5	0.75	11.4	250
7	0.5	12.3	255	7	0.75	12.9	315
12	0.5	14.9	359	12	0.75	15.8	424
18	0.5	17.0	475	18	0.75	18.0	574
25	0.5	19.9	638	25	0.75	21.4	762



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	1.0	9.4	157	4	4.0	16.2	540
3	1.0	10.0	196	5	4.0	17.5	673
4	1.0	10.8	231	7	4.0	19.0	874
5	1.0	12.6	270				
7	1.0	13.6	335	4	6.0	17.7	715
12	1.0	16.4	522	5	6.0	19.2	984
18	1.0	19.2	635	7	6.0	21.9	1285
25	1.0	22.4	867				
2	1.5	10.1	192	4	10.0	21.7	1267
3	1.5	11.3	218	5	10.0	23.5	1635
4	1.5	13.0	265				
5	1.5	13.9	300	4	16.0	24.9	1763
7	1.5	15.0	397	5	16.0	27.4	2720
12	1.5	18.9	690				
18	1.5	22.1	872	4	25.0	29.8	2750
25	1.5	25.1	1180	5	25.0	32.6	3490
2	2.5	11.3	272	4	35.0	32.7	3497
3	2.5	12.7	312				
4	2.5	14.3	362	4	50.0	39.6	4937
5	2.5	15.3	469				
7	2.5	17.2	580	4	70.0	44.2	7480
12	2.5	21.7	863				
18	2.5	25.5	1355	4	95.0	51.0	10220
25	2.5	29.3	1995				
				4	120.0	58.1	13750

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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