



Designed for flexible connecting, measuring, checking and control applications in the machine, plant and tool making industries.

Suitable for installation indoors or outdoors, in dry, moist or wet areas and where exposed to harsh mechanical strain or dragged over sharp/rough surfaces. These cables are resistant to mineral oils, coolant emulsions and UV-radiation.

Construction

fine stranded plain copper conductors
polyvinylchloride (PVC) core insulation
cores twisted in layers
grey polyurethane (PUR) 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, 4000V test
current rating:	see YY, SY & CY derivative chart
insulation resistance:	20 MOhm/km maximum @ 20°C
temperature range:	-5°C to +70°C flexible, -40°C to +80°C static
standards:	construction generally to BS6500 & VDE0250
	flame retardant according to IEC 60332-1
	oil resistant according to VDE 0472 part 803, VDE 0285
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	5.0	32		34	0.5	15.2	333
3	0.5	5.3	43		41	0.5	16.6	400
4	0.5	5.7	50					
5	0.5	6.5	59		2	0.75	5.9	41
7	0.5	7.0	73		3	0.75	6.2	51
10	0.5	9.0	109		4	0.75	7.2	62
12	0.5	9.5	125		5	0.75	7.8	74
18	0.5	11.2	180		7	0.75	8.5	97
25	0.5	13.5	250		9	0.75	10.6	124

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	11.2	163	3	2.5	10.0	132
18	0.75	13.2	234	4	2.5	11.1	163
25	0.75	16.0	324	5	2.5	12.2	186
34	0.75	16.8	431	7	2.5	13.7	267
41	0.75	18.3	529	12	2.5	17.6	445
2	1.0	5.8	48	4	4.0	12.4	237
3	1.0	7.5	61	5	4.0	13.8	291
4	1.0	8.1	74				
5	1.0	9.3	89	4	6.0	14.1	327
7	1.0	10.1	116	5	6.0	15.8	424
12	1.0	12.9	197				
18	1.0	15.3	289	4	10.0	17.8	567
25	1.0	18.4	412	5	10.0	19.9	695
34	1.0	19.0	532				
41	1.0	20.1	638	4	16.0	20.6	1052
				5	16.0	23.6	1400
2	1.5	6.2	69	4	25.0	29.4	1590
3	1.5	7.9	79				
4	1.5	8.8	98	4	35.0	32.8	2200
5	1.5	9.9	121				
7	1.5	10.7	159	4	50.0	38.9	2400
12	1.5	13.6	268				
18	1.5	16.3	392	4	70.0	44.7	4400
25	1.5	20.0	531				
34	1.5	22.2	722	4	95.0	59.6	6000
41	1.5	24.1	867				

PUR Properties: UV resistant, inflammable material with excellent abrasion and tear resistance. Good resistance to water and mineral oils. Poor resistance to acids and alkalis and no resistance to organic solvents.

PUR (Polyurethane) is also halogen free so will produce less than 0.5% HCL (hydrogen chloride) if burnt.

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