



Designed for flexible connecting, measuring, checking and control applications in the machine, plant and tool making industries where screening to prevent electrical interference is required. Unbedded versions (without an inner sheath beneath the braid) have reduced overall diameters compared to bedded.

These tough sheathed cables are 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.

**Construction**

- fine stranded plain copper conductors
- polyvinylchloride (PVC) core insulation
- cores twisted in layers
- optional PVC bedding (inner sheath)
- tinned copper wire braid screen
- grey polyurethane (PUR) 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:	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)

Conductors		Unbedded		Bedded		Conductors		Unbedded		Bedded	
No. of	Area (mm <sup>2</sup> )	O/D mm	kg/km	O/D mm	kg/km	No. of	Area (mm <sup>2</sup> )	O/D mm	kg/km	O/D mm	kg/km
2	0.5	5.8	45	6.6	68	18	0.5	11.5	270	12.9	278
3	0.5	6.1	59	7.1	84	25	0.5	13.4	350	15.9	406
4	0.5	6.5	83	7.6	95	36	0.5	-	-	17.8	587
5	0.5	7.0	96	8.2	107	40	0.5	-	-	18.9	640
7	0.5	7.5	126	9.4	135	41	0.5	-	-	19.2	655
10	0.5	-	-	11.2	170	50	0.5	-	-	20.9	742
12	0.5	9.9	185	11.3	195						



Conductors		Unbedded		Bedded	
No. of	Area (mm <sup>2</sup> )	O/D mm	kg/km	O/D mm	kg/km
2	0.75	6.0	67	7.2	85
3	0.75	6.5	70	7.7	98
4	0.75	7.0	95	8.2	112
5	0.75	7.7	125	8.8	130
7	0.75	8.3	158	10.1	161
10	0.75	-	-	12.2	230
12	0.75	10.9	232	12.3	245
14	0.75	-	-	13.0	317
18	0.75	12.7	315	14.6	354
21	0.75	-	-	16.0	455
25	0.75	14.8	435	17.8	463
32	0.75	-	-	18.7	598
34	0.75	-	-	18.9	688
41	0.75	-	-	21.5	725
50	0.75	-	-	23.3	1100
2	1.0	6.5	84	8.1	97
3	1.0	6.8	98	8.5	107
4	1.0	7.3	125	9.0	135
5	1.0	8.1	150	9.9	162
7	1.0	8.8	180	11.6	194
8	1.0	-	-	12.5	270
10	1.0	-	-	14.0	306
12	1.0	11.5	285	14.4	330
14	1.0	-	-	15.0	402
16	1.0	-	-	15.9	417
18	1.0	13.9	395	17.0	430
20	1.0	-	-	17.8	495
25	1.0	15.9	535	20.6	551
34	1.0	-	-	23.1	735
41	1.0	-	-	25.0	860
50	1.0	-	-	29.0	1318

Conductors		Unbedded		Bedded	
No. of	Area (mm <sup>2</sup> )	O/D mm	kg/km	O/D mm	kg/km
2	1.5	7.1	97	8.5	116
3	1.5	7.5	125	8.9	135
4	1.5	8.2	160	9.7	172
5	1.5	8.9	180	10.8	197
7	1.5	9.9	226	12.5	246
8	1.5	-	-	13.7	335
10	1.5	-	-	15.1	392
12	1.5	13.0	365	15.5	422
14	1.5	-	-	16.1	480
16	1.5	-	-	17.2	525
18	1.5	15.6	536	18.6	553
21	1.5	-	-	20.0	722
25	1.5	17.9	734	22.1	742
34	1.5	-	-	24.7	960
41	1.5	-	-	26.8	1118
42	1.5	-	-	27.5	1370
50	1.5	-	-	29.3	1677
2	2.5	-	-	10.6	180
3	2.5	8.9	188	11.1	191
4	2.5	9.9	230	12.1	242
5	2.5	11.0	270	13.2	282
7	2.5	11.9	340	15.9	370
12	2.5	16.0	580	19.5	595
18	2.5	19.0	978	-	-
25	2.5	22.2	1358	-	-
2	4.0	-	-	12.6	300
3	4.0	-	-	13.4	340
4	4.0	11.6	305	15.0	355
5	4.0	-	-	16.4	412
7	4.0	14.4	500	18.2	640



Conductors		Unbedded		Bedded		Conductors		Unbedded		Bedded	
No. of	Area (mm <sup>2</sup> )	O/D mm	kg/km	O/D mm	kg/km	No. of	Area (mm <sup>2</sup> )	O/D mm	kg/km	O/D mm	kg/km
3	6.0	-	-	15.2	453	4	25.0	25.1	1570	30.6	1894
4	6.0	14.2	440	17.0	483	5	25.0	-	-	34.1	2272
5	6.0	-	-	18.6	576						
7	6.0	17.0	672	20.7	905	4	35.0	-	-	36.9	2395
						5	35.0	-	-	41.1	2890
3	10.0	-	-	19.5	733						
4	10.0	17.2	710	21.5	850	4	50.0	-	-	41.3	3312
5	10.0	-	-	23.9	1140	5	50.0	-	-	45.8	4100
7	10.0	-	-	26.5	1505						
						4	70.0	-	-	48.8	4605
4	16.0	20.2	1050	24.6	1340	5	70.0	-	-	53.1	5710
5	16.0	-	-	27.3	1550						
						4	95.0	-	-	55.8	6055

**PUR Properties:** UV resistant material with excellent abrasion and tear resistance. Good resistance to water and mineral oils. Poor resistance to acids, alkalis and organic solvents.

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