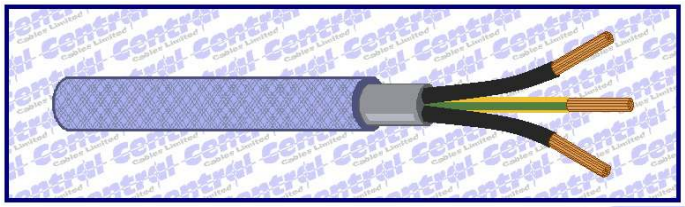
SY NR/OZ armoured PVC control flex with number coded cores



These flexible armoured cables are designed for connecting, measuring, checking and control applications, the steel wire braid armour provides excellent protection against mechanical damage.

Suitable for installation in dry and moist rooms, outdoor installation not recommended.

Some popular sizes are available in LSZH (low smoke zero halogen) for increased fire safety.

Construction

fine stranded plain copper conductors

PVC (polyvinylchloride) core insulation

grey PVC inner sheath

galvanised steel wire braid armour

clear 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:	300/500V operating, 2000V test
current rating:	see YY, SY & CY derivative chart
temperature range:	-5°C to +70°C flexible, -40°C to +80°C static, max. +70°C at conductor
standards:	construction generally to VDE 0295
	flame retardant according to IEC 60332-1
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 (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)	Number of Cores	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)
2	0.5	7.0	87	21	0.5	15.2	337
3	0.5	7.5	95	25	0.5	16.0	375
4	0.5	7.9	107	30	0.5	16.5	439
5	0.5	8.7	123	35	0.5	17.9	500
7	0.5	10.0	147	40	0.5	19.0	565
10	0.5	11.1	196	52	0.5	20.7	690
12	0.5	11.6	218	61	0.5	23.1	843
14	0.5	12.0	242	80	0.5	25.7	1050
18	0.5	13.5	291				

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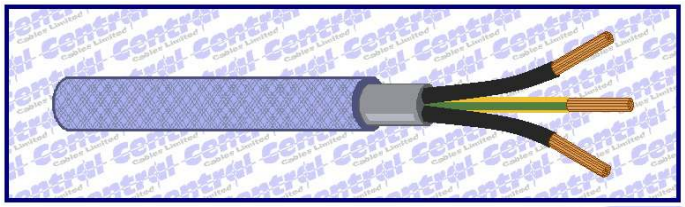

Number of Cores	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)
2	0.75	7.9	97
3	0.75	8.1	108
4	0.75	8.7	134
5	0.75	9.5	146
7	0.75	10.5	172
9	0.75	11.9	224
10	0.75	12.3	222
12	0.75	12.9	263
15	0.75	14.1	315
18	0.75	14.7	355
21	0.75	16.5	424
25	0.75	17.4	465
34	0.75	19.7	596
41	0.75	21.6	741
50	0.75	24.0	925
61	0.75	25.4	1082
2	1.0	8.4	106
3	1.0	8.6	119
4	1.0	9.2	141
5	1.0	10.1	164
7	1.0	11.3	200
8	1.0	12.1	230
9	1.0	13.2	260
12	1.0	13.8	309
14	1.0	14.2	345
18	1.0	15.9	420
20	1.0	16.6	492
25	1.0	18.3	548
34	1.0	20.7	739
36	1.0	23.0	857
41	1.0	25.0	993
50	1.0	25.4	1112

Number of Cores	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)
56	1.0	26.0	1225
61	1.0	27.2	1306
65	1.0	28.4	1540
80	1.0	30.9	1750
100	1.0	35.2	1950
2	1.5	9.1	128
3	1.5	9.5	151
4	1.5	10.1	173
5	1.5	11.0	202
7	1.5	12.0	248
8	1.5	12.6	291
9	1.5	13.2	315
10	1.5	14.5	358
12	1.5	15.4	396
14	1.5	16.6	438
18	1.5	17.6	538
25	1.5	20.4	713
32	1.5	23.4	944
34	1.5	25.1	1015
42	1.5	27.0	1212
50	1.5	28.0	1393
61	1.5	31.8	1810
80	1.5	36.4	2316
100	1.5	41.4	2900
2	2.5	10.4	165
3	2.5	11.5	206
4	2.5	12.4	249
5	2.5	13.1	295
7	2.5	14.7	373
12	2.5	18.7	586
14	2.5	19.9	653

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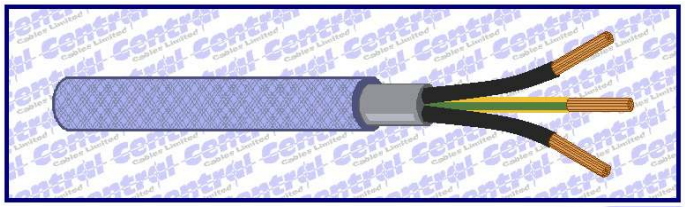

Number of Cores	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)	Number of Cores	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)
18	2.5	21.1	823	5	10.0	22.6	945
25	2.5	23.3	1093	7	10.0	24.7	1299
30	2.5	30.0	1686				
34	2.5	33.1	1869	4	16.0	23.0	1384
50	2.5	39.4	2200	5	16.0	25.9	1740
61	2.5	41.5	3000	7	16.0	29.0	1853
3	4.0	12.6	285	4	25.0	31.0	1720
4	4.0	14.1	348	5	25.0	36.5	2130
5	4.0	16.0	410				
7	4.0	16.9	519	4	35.0	36.0	2276
				5	35.0	40.7	2789
3	6.0	16.2	440				
4	6.0	16.5	482	4	50.0	42.5	3300
5	6.0	17.7	579				
7	6.0	19.5	740	4	70.0	52.4	4411
3	10.0	18.9	730	4	95.0	57.6	5237
4	10.0	20.2	783				

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.

XK/KC