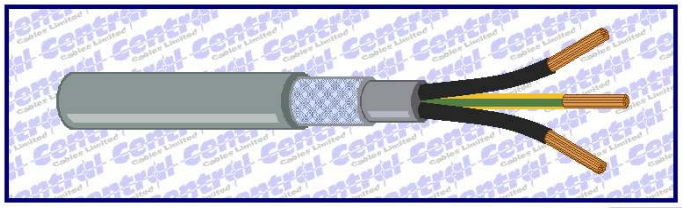
PUR CY screened grey polyurethane control flex



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.

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

special PVC compound 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)

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	6.6	68	18	0.5	12.9	278
3	0.5	7.1	84	25	0.5	15.9	406
4	0.5	7.6	95	36	0.5	17.8	587
5	0.5	8.2	107	40	0.5	18.9	640
7	0.5	9.4	135	41	0.5	19.2	655
10	0.5	11.2	170	50	0.5	20.9	742
12	0.5	11.3	195				

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Central Cables Limited

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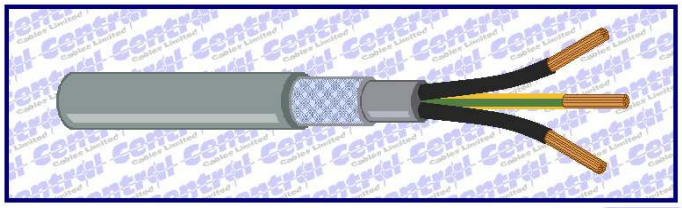

Number of Cores	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)	Number of Cores	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)
2	0.75	7.2	85	2	1.5	8.5	116
3	0.75	7.7	98	3	1.5	8.9	135
4	0.75	8.2	112	4	1.5	9.7	162
5	0.75	8.8	130	5	1.5	10.8	187
7	0.75	10.1	161	7	1.5	12.5	236
10	0.75	12.2	230	8	1.5	13.7	335
12	0.75	12.3	245	10	1.5	15.1	392
14	0.75	13.0	317	12	1.5	15.5	422
18	0.75	14.6	354	14	1.5	16.1	480
21	0.75	16.0	455	16	1.5	17.2	525
25	0.75	17.8	463	18	1.5	18.6	536
32	0.75	18.7	598	21	1.5	20.0	722
34	0.75	18.9	688	25	1.5	22.1	742
41	0.75	21.5	725	34	1.5	24.7	960
50	0.75	23.3	1100	41	1.5	26.8	1118
				42	1.5	27.5	1370
2	1.0	8.1	97	50	1.5	29.3	1677
3	1.0	8.5	102				
4	1.0	9.0	129	2	2.5	10.6	180
5	1.0	9.9	152	3	2.5	11.1	191
7	1.0	11.6	184	4	2.5	12.1	232
8	1.0	12.5	270	5	2.5	13.2	282
10	1.0	14.0	306	7	2.5	15.9	370
12	1.0	14.4	330	12	2.5	19.5	580
14	1.0	15.0	402				
16	1.0	15.9	417	2	4.0	12.6	300
18	1.0	17.0	430	3	4.0	13.4	340
20	1.0	17.8	495	4	4.0	15.0	355
25	1.0	20.6	541	5	4.0	16.4	412
34	1.0	23.1	735	7	4.0	18.2	640
41	1.0	25.0	860				
50	1.0	29.0	1318	3	6.0	15.2	453
				4	6.0	17.0	483

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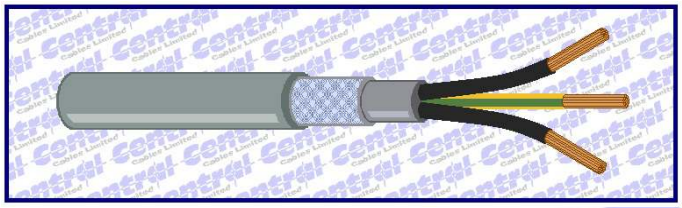

Number of Cores	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)	Number of Cores	Conductor Area (mm²)	Overall Diameter (mm)	Overall Weight (kg/km)
5	6.0	18.6	576	4	35.0	36.9	2395
7	6.0	20.7	905	5	35.0	41.1	2890
3	10.0	19.5	733	4	50.0	41.3	3312
4	10.0	21.5	850	5	50.0	45.8	4100
5	10.0	23.9	1140				
7	10.0	26.5	1505	4	70.0	48.8	4605
				5	70.0	53.1	5710
4	16.0	24.6	1340				
5	16.0	27.3	1550	4	95.0	55.8	6055
4	25.0	30.6	1894	4	120.0	59.4	7318
5	25.0	34.1	2272				

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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