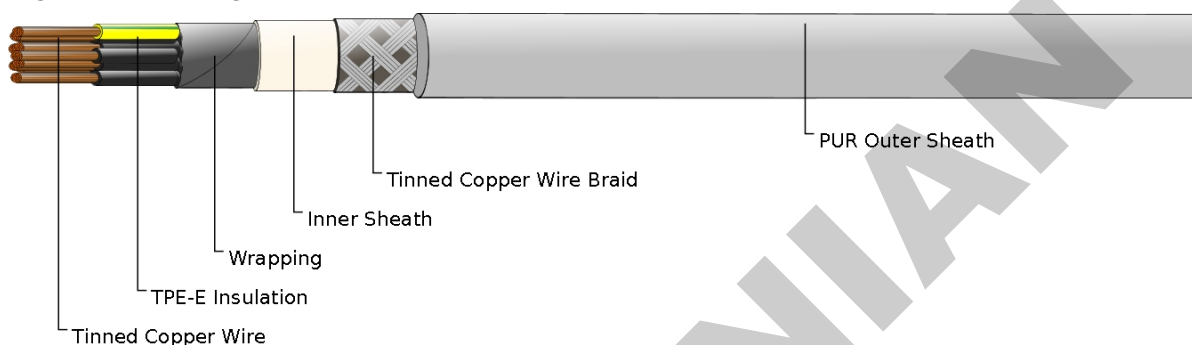


PUR Sheathed Chain Cable (Multicore)

APPLICATION

This highly flexible cable chain cable is best suited for application in industrial robots, handling gears, automation systems, wood and packaging machines, the automobile industry, machine tools and high shelf building.



CONSTRUCTION

Conductor: Flexible stranded tinned copper wire to IEC/EN 60228 Class 6.

Insulation : TPE-E or PP.

Wrapping

Inner sheath

Braid : Screen of tinned copper braiding.

Outer sheath : Polyurethane (PUR), poor in adhesion, oil and abrasion resistant, halogen-free*, UV-resistant.

STANDARDS

In according with DIN VDE 0281, DIN EN 60228 class 6.

TECHNICAL DATA

Nominal voltage	U ₀ / U	300 / 500 V
Test voltage at 50 Hz	core / core	2500 V _{AC}
	core / screen	1000 V _{AC}
Temperature range	in motion	-30°C** till +80°C
	fixed	-40°C till +80°C
Operating temperature	short circuit	150°C
Short circuit time	max.	5 sec
Bending radius	one time / fixed	5.0 x diameter
	in motion	7.5 x diameter
Oil-resistant	standard	IEC / EN 60811-2-1
Flammability	standard	IEC / EN 60332-1-2

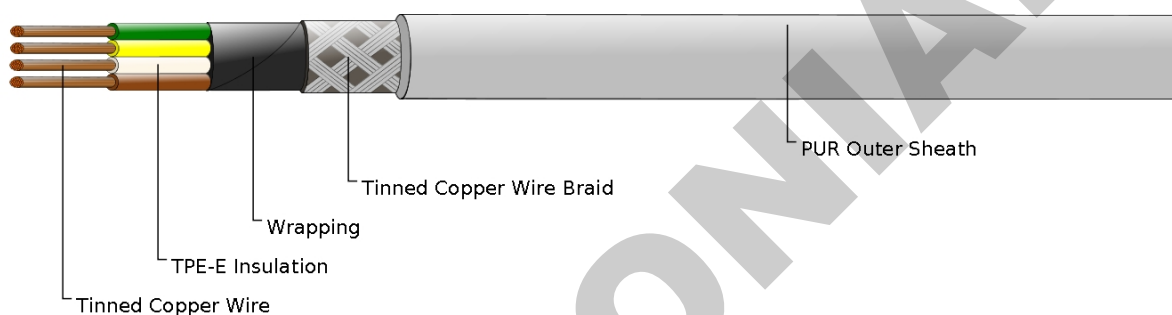
CONSTRUCTION PARAMETERS

No.of cores x cross section (mm ²)	Copper weight (kg/km)	Braiding wire diameter (mm)	Approx. O.D. (mm)	Approx. weight (kg/km)
2 x 0.5	47.0	0.12	7.0	67
3 x 0.5	52.8	0.12	7.3	80
4 x 0.5	59.5	0.12	8.4	89
5 x 0.5	65.3	0.12	8.8	105
7 x 0.5	84.5	0.12	9.9	132
12 x 0.5	116.2	0.12	11.8	190
18 x 0.5	156.5	0.12	13.5	248
25 x 0.5	227.5	0.12	16.7	370
2 x 0.75	52.8	0.12	7.6	78
3 x 0.75	62.4	0.12	8.0	95
4 x 0.75	70.1	0.12	8.6	112
5 x 0.75	86.4	0.12	9.4	123
7 x 0.75	106.6	0.12	11.2	166
12 x 0.75	155.5	0.12	12.8	233
18 x 0.75	233.3	0.12	15.4	334
25 x 0.75	313.0	0.12	18.3	462
36 x 0.75	399.4	0.12	22.0	633
3 x 1	70.1	0.12	8.6	104
4 x 1	88.3	0.12	9.2	127
5 x 1	98.9	0.12	10.0	146
7 x 1	124.8	0.12	11.9	197
12 x 1	186.2	0.12	13.8	299
18 x 1	279.4	0.12	16.7	418
25 x 1	377.3	0.12	20.1	573
50 x 1	723.8	0.12	25.3	1.247
2 x 1.5	78.7	0.12	8.7	115
3 x 1.5	94.1	0.12	9.3	138
4 x 1.5	112.3	0.12	10.1	156
5 x 1.5	128.6	0.12	11.2	197
7 x 1.5	169.9	0.12	12.8	250
12 x 1.5	278.4	0.12	15.5	417
18 x 1.5	393.6	0.12	18.6	559
25 x 1.5	532.8	0.12	22.3	813
36 x 1.5	702.7	0.12	27.2	1.044
3 x 2.5	129.6	0.12	11.1	196
4 x 2.5	164.2	0.12	12.0	232
5 x 2.5	190.1	0.12	13.2	289
7 x 2.5	273.6	0.12	16.1	416
12 x 2.5	425.3	0.12	18.8	629
18 x 2.5	607.7	0.12	22.4	915
4 x 4	255.4	0.16	13.9	308
4 x 6	359.0	0.16	15.9	440

PUR Sheathed Chain Cable (Multipair)

APPLICATION

This highly flexible pair wise stranded cable chain data cable is best suited for different industrial areas such as machine construction, the automobile and communications industry, as well as for steering, controlling and measuring machinery. It is particularly useful for machinery that is put to prolonged use, such as machine controls. The paired cable suppresses electrical couplings of individual signals whilst effectively lowering near- and crosstalk attenuation. The copper braiding should be fully connected to optimise protection against high frequency external interference (EMC).



CONSTRUCTION

Conductor: Flexible stranded tinned copper wire to IEC/EN 60228 Class 6.

Insulation: TPE-E or PP.

Wrapping

Braid: Screen of tinned copper braiding.

Outer sheath: Polyurethane (PUR), poor in adhesion, oil and abrasion resistant, UV-resistant.

STANDARDS

In according with DIN VDE 0812, DIN EN 60228 class 6 (construction).

TECHNICAL DATA

Ceiling voltage	V	250 V till 0.34mm ²
	V	350 V from 0.50mm ²
Test voltage		1500 V _{AC}
Temperature range	in motion	-30°C till +80°C
Bending radius	min.	7.5 x diameter
Oil-resistant	standard	IEC / EN 60811-2-1
Flammability	standard	IEC / EN 60332-1-2

CONSTRUCTION PARAMETERS

No. of pairs x cross section (mm ²)	Copper weight (kg/km)	Braiding wire diameter (mm)	Approx. O.D. (mm)	Approx. weight (kg/km)
2 x 2 x 0.14	16.3	0.12	6.2	43
3 x 2 x 0.14	20.2	0.12	6.5	55
4 x 2 x 0.14	26.9	0.12	7.0	60
5 x 2 x 0.14	36.5	0.12	7.5	76
6 x 2 x 0.14	49.00	0.12	7.7	92
8 x 2 x 0.14	54.7	0.12	8.8	110
10 x 2 x 0.14	60.5	0.12	10.2	121
2 x 2 x 0.25	31.7	0.12	7.2	63
3 x 2 x 0.25	38.4	0.12	7.5	69
4 x 2 x 0.25	44.2	0.12	8.5	98
5 x 2 x 0.25	50.9	0.12	9.1	106
6 x 2 x 0.25	72.0	0.12	9.9	134
8 x 2 x 0.25	73.9	0.12	11.6	154
10 x 2 x 0.25	91.2	0.12	12.9	192
14 x 2 x 0.25	109.4	0.12	13.5	216
2 x 2 x 0.34	25.9	0.12	6.2	51
3 x 2 x 0.34	33.6	0.12	6.5	55
4 x 2 x 0.34	43.2	0.12	7.1	67
5 x 2 x 0.34	53.8	0.12	7.6	78
6 x 2 x 0.34	60.5	0.12	8.5	100
8 x 2 x 0.34	84.5	0.12	9.5	123
10 x 2 x 0.34	94.1	0.12	10.6	148
2 x 2 x 0.5	50.9	0.12	9.2	101
3 x 2 x 0.5	72.0	0.12	9.9	126
4 x 2 x 0.5	73.9	0.12	11.0	151
5 x 2 x 0.5	84.5	0.12	11.8	170
6 x 2 x 0.5	100.8	0.12	12.7	194
8 x 2 x 0.5	143.0	0.12	15.6	250
10 x 2 x 0.5	174.7	0.12	17.5	347
2 x 2 x 0.75	60.5	0.12	9.6	112
3 x 2 x 0.75	86.4	0.12	10.8	160
4 x 2 x 0.75	100.8	0.12	11.4	169
5 x 2 x 0.75	114.2	0.12	12.4	204
6 x 2 x 0.75	133.4	0.12	13.3	228
8 x 2 x 0.75	191.0	0.12	16.3	344
10 x 2 x 0.75	256.3	0.12	19.2	458