

# ROBOTFLEX 'T-CY' TPE/PUR

## Halogen free Screened PUR cable for cable drag chains



**Application**  
 Robotflex T-CY PUR cables are specially designed for use in cable chains, other continuously moving machines and also on robots. The polyurethane outer sheath allows a very small outer diameter. The cable is also resistant to abrasion and able to withstand high mechanical stresses.

### Construction

Conductor :	Fine stranded plain copper according to VDE 0295 Class 6
Insulation:	Semocore
Core colour :	up to 0.34mm <sup>2</sup> acc. To DIN 47100, from 0.50mm <sup>2</sup> white cores with black numbers, from 3 cores with Green/Yellow earth conductor.
Core Arrangement :	Cores twisted around in concentric layers
Wrapping :	Fleece
Shield :	Tinned copper braid, coverage ca. 85 - 90%
Sheath :	PUR - adhesion proof
Sheath colour :	Grey RAL 7001
Imprint :	Roboschlepp CY 300/500V

### Working Environment

Maximum operating temperature in fixed application :	-40 deg C - + 90 deg C
Maximum operating temperature in mobile application :	-50 deg C - + 90 deg C
Maximum temperature at conductor :	+90 deg C
Environment :	suitable for use in dry, humid & wet room areas

### Electrical properties

Nominal voltage :	0.14 - 0.34mm <sup>2</sup> - 350 V From 0.50mm <sup>2</sup> - 300/500 V
Test Voltage :	up to 1.5mm <sup>2</sup> - 2000 V 2.5 - 4mm <sup>2</sup> - 2500 V From 6mm <sup>2</sup> - 3000 V
Conductor Resistance :	Acc to VDE 0295 Class 6
Insulation Resistance :	> 20 Ohm x km

### Additional information

Minimum bending radius :	Mobile application - 7.5 x cable thickness
Oil resistance :	Acc. To VDE 0472 part 803 1 & VDE 0473 part 811 2-1
Flame resistance :	Self extinguishing & flame retardant acc. To IEC 60332-2-2

### Applied Standards

	Similar to DIN VDE 0250



- ① Copper conductor
- ② Semocore insulation
- ③ Tinned copper screen
- ④ PUR outer sheath

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Part No	Cross Section mm <sup>2</sup>	Current Rating @ 30 Deg	CU Number kg/km	Outer Diameter approx. (mm)	Weight kg/km
08094 0034 03	3 x 0.34		19.0	5.1	37
08094 0034 04*	4 x 0.34		23.0	5.8	48
08094 0034 05*	5 x 0.34		28.0	6.2	56
08094 0034 08*	8 x 0.34		42.0	7.6	82
08094 0034 12*	12 x 0.34		56.0	8.2	103
08094 0034 18	18 x 0.34		89.0	9.5	149
08094 0034 25*	25 x 0.34		118.0	11.1	198
08094 0050 02*	2 x 0.50	6A	21.0	5.8	47
08094 0050 03*	3 G 0.50	6A	26.0	6.0	55
08094 0050 04	4 G 0.50	6A	31.0	6.4	59
08094 0050 05*	5 G 0.50	6A	37.0	6.8	69
08094 0050 07	7 G 0.50	6A	50.0	8.0	94
08094 0050 12*	12 G 0.50	6A	88.0	9.6	145
08094 0050 18*	18 G 0.50	6A	123.0	10.9	196
08094 0050 25*	25 G 0.50	6A	164.0	12.8	263
08094 0050 30*	30 G 0.50	6A	190.0	13.4	302
08094 0050 36*	36 G 0.50	6A	223.0	14.3	350
08094 0050 40*	40 G 0.50	6A	249.0	15.9	405
08094 0075 02	2 x 0.75	13A	26.0	6.2	50
08094 0075 03	3 G 0.75	13A	34.0	6.4	60
08094 0075 04	4 G 0.75	13A	42.0	6.9	75
08094 0075 05	5 G 0.75	13A	51.0	7.4	89
08094 0075 07	7 G 0.75	13A	69.0	8.7	118
08094 0075 12	12 G 0.75	13A	126.0	10.4	183
08094 0075 18*	18 G 0.75	13A	170.0	11.9	261
08094 0075 25	25 G 0.75	13A	230.0	14.2	347
08094 0075 30*	30 G 0.75	13A	267.0	14.6	390
08094 0075 36*	36 G 0.75	13A	316.0	15.5	465

\* Non stock size - MOQ 1000m

We reserve the right to amend all technical details without prior notification

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## Halogen free Screened PUR cable for cable drag chains

Part No	Cross Section mm <sup>2</sup>	Current Rating @ 30 Deg	CU Number kg/km	Outer Diameter approx. (mm)	Weight kg/km
08094 0100 02*	2 x 1	16A	32.0	6.6	58
08094 0100 03	3 G 1	16A	42.0	6.9	72
08094 0100 04	4 G 1	16A	54.0	7.4	87
08094 0100 05	5 G 1	16A	65.0	8.1	107
08094 0100 07	7 G 1	16A	98.0	9.6	157
08094 0100 12	12 G 1	16A	153.0	11.3	225
08094 0100 18	18 G 1	16A	220.0	13.1	300
08094 0100 25*	25 G 1	16A	296.0	15.7	436
08094 0100 30*	30 G 1	16A	345.0	16.1	492
08094 0100 36*	36 G 1	16A	409.0	17.5	585
08094 0150 02	2 x 1.5	20A	43.0	7.0	71
08094 0150 03	3 G 1.5	20A	58.0	7.3	89
08094 0150 04	4 G 1.5	20A	74.0	8.0	112
08094 0150 05	5 G 1.5	20A	91.0	8.7	135
08094 0150 07	7 G 1.5	20A	135.0	10.5	197
08094 0150 12	12 G 1.5	20A	215.0	12.3	294
08094 0150 18	18 G 1.5	20A	310.0	14.3	417
08094 0150 25	25 G 1.5	20A	421.0	16.9	567
08094 0150 30*	30 G 1.5	20A	496.0	17.6	656
08094 0150 36*	36 G 1.5	20A	588.0	19.1	780
08094 0250 03	3 G 2.5	30A	101.0	9.2	148
08094 0250 04	4 G 2.5	30A	129.0	10.1	186
08094 0250 05	5 G 2.5	30A	162.0	11.0	240
08094 0250 07	7 G 2.5	30A	213.0	13.0	307
08094 0250 12*	12 G 2.5	30A	343.0	15.6	475
08094 0250 18*	18 G 2.5	30A	498.0	18.2	680
08094 0250 25*	25 G 2.5	30A	706.0	21.8	930
08094 0400 04	4 G 4	40A	194.0	12.0	270
08094 0400 05*	5 G 4	40A	237.0	13.0	326
08094 0400 07*	7 G 4	40A	325.0	15.8	458
08094 0600 04	4 G 6	50A	281.0	14.3	390
08094 0600 05*	5 G 6	50A	344.0	15.8	478
08094 0600 07*	7 G 6	50A	473.0	19.2	668
08094 1000 04*	4 G 10		452.0	18.3	640
08094 1000 05*	5 G 10		556.0	20.2	784
08094 1600 04*	4 G 16		722.0	23.0	946
08094 2500 04*	4 G 25		1093.0	26.4	1440
08094 3500 04*	4 G 35		1496.0	29.7	1920

\* Non stock size - MOQ 1000m