

# ROBOTFLEX 'T' TPE/PUR

## Halogen free PUR cable for cable drag chains



**Application**  
 Robotflex 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
Sheath :	PUR – adhesion proof
Sheath colour :	Grey RAL 7001
Imprint :	Roboschlepp 300/500V

### Working Environment

Maximum operating temperature in mobile application :	-40 deg C - + 90 deg C
Maximum operating temperature in fixed 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

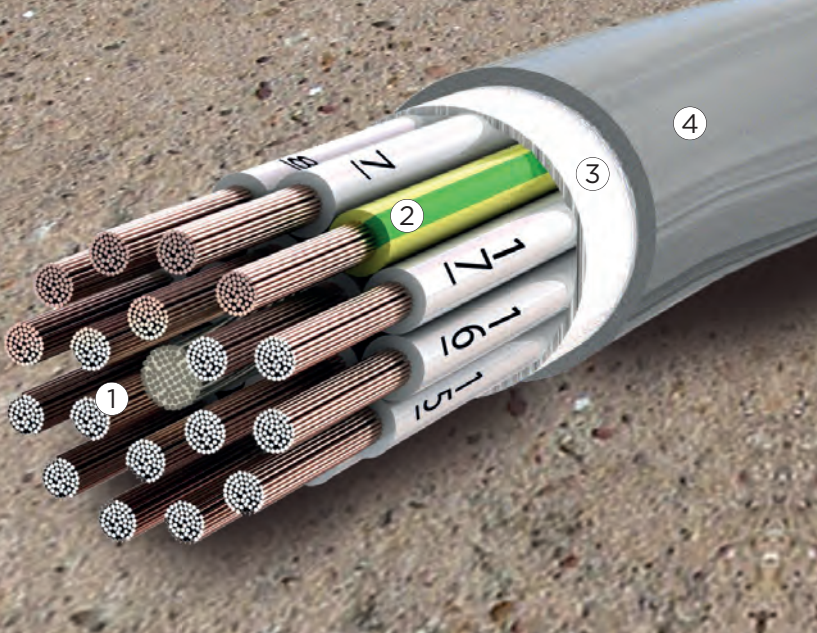
Nominal voltage :	0.14 - 0.34mm <sup>2</sup> - 350 V From 0.50mm <sup>2</sup> - 300/500 V
Test Voltage :	up to 1.5mm <sup>2</sup> - 2000 V 2.5 - 4mm <sup>2</sup> - 2500 V From 6mm <sup>2</sup> - 3000 V
Conductor Resistance :	Acc to VDE 0295 Class 6
Insulation Resistance :	> 20 Ohm x km

### Additional information

Minimum bending radius :	Mobile application - 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 Fleece wrapping
- 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
08093 0034 03	3 x 0.34		9.8	4.2	23
08093 0034 04*	4 x 0.34		13.0	4.5	28
08093 0034 05*	5 x 0.34		16.3	5.1	36
08093 0034 08*	8 x 0.34		26.1	6.9	6.2
08093 0034 12*	12 x 0.34		39.1	7.3	78
08093 0034 18	18 x 0.34		58.7	8.6	114
08093 0034 25*	25 x 0.34		81.5	10.0	150
08093 0050 02	2 x 0.50	6A	9.6	4.5	24
08093 0050 03	3 G 0.50	6A	14.4	4.7	28
08093 0050 04	4 G 0.50	6A	19.2	5.3	38
08093 0050 05	5 G 0.50	6A	24.0	5.9	49
08093 0050 07	7 G 0.50	6A	33.6	6.9	65
08093 0050 12	12 G 0.50	6A	57.6	8.5	102
08093 0050 14	14 G 0.50	6A	67.2	9.1	116
08093 0050 18	18 G 0.50	6A	86.4	9.8	154
08093 0050 25	25 G 0.50	6A	120.0	11.5	202
08093 0050 30*	30 G 0.50	6A	144.0	11.9	236
08093 0050 36	36 G 0.50	6A	172.8	14.0	274
08093 0075 02	2 x 0.75	13A	14.4	5.3	30
08093 0075 03	3 G 0.75	13A	21.6	5.5	38
08093 0075 04	4 G 0.75	13A	28.8	6.0	48
08093 0075 05	5 G 0.75	13A	36.0	6.5	63
08093 0075 07	7 G 0.75	13A	50.4	7.6	91
08093 0075 12	12 G 0.75	13A	86.4	9.3	140
08093 0075 14	14 G 0.75	13A	100.8	9.8	160
08093 0075 18	18 G 0.75	13A	129.6	10.8	199
08093 0075 20	20 G 0.75	13A	144.0	11.3	230
08093 0075 25	25 G 0.75	13A	180.0	12.7	275
08093 0075 30	30 G 0.75	13A	216.0	13.1	318
08093 0075 36	36 G 0.75	13A	259.2	14.6	396

\* Non stock size - MOQ 1000m

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

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## Halogen free 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
08093 0100 02	2 x 1	16A	19.2	5.7	40
08093 0100 03	3 G 1	16A	28.8	6.0	52
08093 0100 04	4 G 1	16A	38.4	6.4	65
08093 0100 05	5 G 1	16A	48.0	7.0	79
08093 0100 07	7 G 1	16A	67.2	8.3	108
08093 0100 12	12 G 1	16A	115.2	10.2	178
08093 0100 14*	14 G 1	16A	134.4	10.6	202
08093 0100 18	18 G 1	16A	172.8	11.8	254
08093 0100 25	25 G 1	16A	240.0	14.0	343
08093 0100 30*	30 G 1	16A	288.0	14.6	409
08093 0100 36	36 G 1	16A	345.6	16.0	512
08093 0150 02	2 x 1.5	20A	28.8	6.1	51
08093 0150 03	3 G 1.5	20A	43.2	6.4	68
08093 0150 04	4 G 1.5	20A	57.6	7.0	88
08093 0150 05	5 G 1.5	20A	72.0	7.6	107
08093 0150 07	7 G 1.5	20A	100.8	9.4	171
08093 0150 12	12 G 1.5	20A	172.8	11.0	239
08093 0150 14*	14 G 1.5	20A	201.6	11.5	275
08093 0150 18	18 G 1.5	20A	259.2	12.8	356
08093 0150 25	25 G 1.5	20A	360.0	15.2	475
08093 0150 30*	30 G 1.5	20A	432.0	16.1	560
08093 0150 36	36 G 1.5	20A	518.4	17.7	700
08093 0250 03	3 G 2.5	30A	72.0	8.3	120
08093 0250 04	4 G 2.5	30A	96.0	9.1	148
08093 0250 05	5 G 2.5	30A	120.0	9.9	177
08093 0250 07	7 G 2.5	30A	168.0	11.7	247
08093 0250 12	12 G 2.5	30A	288.0	13.9	382
08093 0250 18*	18 G 2.5	30A	432.0	16.5	579
08093 0250 25*	25 G 2.5	30A	600.0	20.3	823
08093 0400 04	4 G 4	40A	153.6	11.5	232
08093 0400 05*	5 G 4	40A	192.0	12.6	285
08093 0400 07	7 G 4	40A	268.8	15.0	385
08093 0600 04	4 G 6	50A	230.4	13.6	370
08093 0600 05*	5 G 6	50A	288.0	15.1	418
08093 0600 07	7 G 6	50A	403.2	19.1	598
08093 1000 04*	4 G 10		384.0	18.0	566
08093 1000 05*	5 G 10		480.0	19.5	718
08093 1600 01*	1 x 16		153.8	10.0	290
08093 1600 04*	4 G 16		614.4	22.1	885
08093 2500 04*	4 G 25		960.0	25.8	1295

\* Non stock size - MOQ 1000m