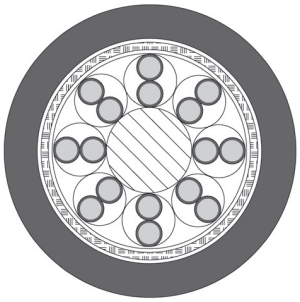
ROBOFLEX® 150,...151,...152,...153 PUR, halogen-free,

for torsional stress, meter marking



Technical data

- Special TPE-E/PUR robot cable based on DIN VDE 0250 / DIN VDE 0285-525-1 / DIN EN 50525-1
- **Temperature range** flexing -40°C to +80°C
- **Nominal voltage** up to 0,34 mm² 350 V from 0.5 mm² U_0/U 300/500 V
- **Test voltage** up to 0,34 mm² 1500 V from 0.5 mm² 3000 V
- **Insulation resistance** min. 20 MOhm x km
- Max. **torsion angle** ±360°/metre
- **Mutual capacitance** core/core approx. 100 nF/km core/screen approx. 120 nF/km
- **Minimum bending radius** 15x cable Ø

Cable structure

- Bare copper, stranded to DIN VDE 0295 and IEC 60228, fine or extra fine wires, cl.5 or cl.6, BS 6360 cl.5 or 6, up to 0,34 mm² cl.5, above 0,5 mm² cl.6
- TPE-E core insulation
- Black cores continuous white numbering acc. to DIN VDE 0293 + gnye
- Special optimised stranding
- High-grade slide wrapping
- with meter marking
- Tinned copper twist screen
- PUR outer sheath
- Sheath colour: grey (RAL 7001) or black

Part. nos. 77261-77263, 76158, 70561, 77267, 77268, 76165, 76166, 77424

- Core colours DIN 47100

Part no. 71820, 74658, 77264, 75253, 76167

- Construction as above, but 0,5 (1,5) mm² cores screened with aluminium-coated polyester foil

Part no. 72214

- Construction as above, but 0,5 mm² pair screened with tinned twist screen

Part no. 77265, 77266, 77269, 77270

- Construction as above, but 1,0 mm² pair only, screened with tinned twist screen

Part no. 77469

- Construction as above, but
- 6 cores, 1,5 mm², screened with tinned twist screen
- 4 pairs, 0,25 mm², screened with tinned twist screen
- Sheath colour: orange (RAL 2003)
- with meter marking

Properties

- PUR outer sheath, low adhesion, abrasion resistant, halogen-free, resistant to UV, oil, hydrolysis and microbial attack
- The smooth, high-grade core insulation, together with special stranding configuration and slide wrapping ensure long service life under combined bending and torsional stresses
- AWG sizes are approximate equivalent values. The actual cross-section is in mm²

Application

These cables are specially designed for combined torsional and bending stresses. They are employed both for power supply and for the transmission of control and monitoring signals. ROBOFLEX® cables are used in assembly and welding robots, in handling and automation centres, in transport and conveyor equipment, and on turntables and swivel tables. In other words, anywhere where there is no defined cable routing with only alternating bending cycles on a single plane such as in drag chains.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Continuation ▸

ROBOFLEX® 150, ...151, ...152, ...153 PUR, halogen-free,

for torsional stress, meter marking

ROBOFLEX® 150 (screened), Sheath colour grey

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
77261	(12 x 0,25)	8,3	59,5	126,0	24
77266	23 x 1 + (2 x 1,0)	17,4	262,0	473,0	18
71789	(4 x 1,5)	8,9	81,7	150,0	16
75251	(4 x 2,5)	11,2	134,0	280,0	14
75252	(4 x 4)	13,1	200,0	400,0	12
76157	(4 x 6)	15,4	286,0	550,0	10
77262	(3 x 2 x 0,14)	5,8	17,0	43,0	26
77263	(4 x 2 x 0,14)	6,9	37,0	75,0	26
76158	(5 x 2 x 0,34)	9,2	65,0	116,0	22
70561	(8 x 2 x 0,34)	10,2	90,0	150,0	22
71820	(4 x 1,5 + (2 x 0,62))	10,5	106,8	195,0	16
74658	(4 x 1,5 + (2 x 0,5))	10,7	95,0	180,0	16
77264	(4 x 1,5 + (2 x 1,0))	11,1	128,0	220,0	16
75253	(4 x 2,5 + (2 x 0,5))	12,5	180,0	270,0	14
72214	(4 x 4 + (2 x 0,62))	13,5	260,0	340,0	12
76159	(4 x 4 + (2 x 1,0))	14,0	237,0	350,0	12
76160	(4 x 6 + (2 x 1,0))	16,0	341,0	500,0	10
77265	16 x 1 + (2 x 1,0)	16,7	197,0	380,0	18

ROBOFLEX® 151, Sheath colour grey

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
70116	12 G 0,5	8,3	57,6	131,0	20
76168	4 G 1,5	8,5	57,6	106,0	16
76169	4 G 2,5	10,8	96,0	196,0	14
76170	4 G 4	12,7	153,6	283,0	12
76171	4 G 6	15,0	230,4	432,0	10

ROBOFLEX® 152 (screened), Sheath colour black

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
76161	(4 x 1,5)	8,9	81,7	150,0	16
76162	(4 x 2,5)	11,2	164,0	280,0	14
76163	(4 x 4)	13,1	222,0	400,0	12
76164	(4 x 6)	15,4	305,0	550,0	10
77267	(3 x 2 x 0,14)	5,8	23,0	43,0	26
77268	(4 x 2 x 0,14)	6,9	26,6	55,0	26
77424	(3 x 2 x 0,25)	7,3	32,0	65,0	24
76165	(5 x 2 x 0,34)	9,2	65,0	116,0	22
76166	(8 x 2 x 0,34)	10,2	90,0	150,0	22
75415	(4 x 1,5 + (2 x 0,5))	10,7	95,0	170,0	16
75416	(4 x 2,5 + (2 x 0,5))	11,8	115,0	220,0	14
75940	(4 x 2,5 + (2 x 1,0))	12,3	147,0	250,0	14
75167	(4 x 4 + (2 x 0,5))	13,5	260,0	340,0	12
75417	(4 x 4 + (2 x 1,0))	14,0	237,0	350,0	12
75418	(4 x 6 + (2 x 1,0))	16,0	316,0	500,0	10
77269	16 x 1 + (2 x 1,0)	16,7	176,0	380,0	18
77270	23 x 1 + (2 x 1,0)	17,4	262,0	473,0	18
77469	5 x 2,5 + (6 x 1,5) + 4 x (2 x 0,25)	16,7	320,0	460,0	14

ROBOFLEX® 153, Sheath colour black

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
76172	4 G 1,5	8,5	57,6	106,0	16
76174	4 G 4	12,7	153,6	283,0	12
76175	4 G 6	15,0	230,4	432,0	10

Dimensions and specifications may be changed without prior notice.