

ROBOFLEX 2001 / 2001-C Robot cables screened, EMC-preferred type



HELUKABEL ROBOFLEX 2001-C 18x0,5 QMM / 25498 300/500 V 001041947 C€



Technical data

- Special TPE-E/PUR adapted to DIN VDE 0245, 0250, 0282
- **Temperature range**
flexing -30°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage**
up to 0,34 mm² 350 V (operating peak voltage)
above 0,5 mm² U₀/U 300/500 V
- **Test voltage**
up to 0,34 mm² 1,5 kV, 5 minutes
above 0,5 mm² 3,0 kV, 5 minutes
- **Mutual capacitance**
core/core approx. 100 nF/km
core/screen approx. 120 nF/km
- **Inductance approx.**
0,69 mH/km
- **Minimum bending radius**
7,5x cable Ø

Cable construction

- 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
- Special core insulation, TPE
- Cores coded up to 0,34 mm² according DIN 47100
above 0,5 mm² black cores with continuous white numbering according to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Special separating foil
- Cable structure C-type, cu-screen of helically wound, approx. 85-95% coverage
- Outer sheath, special polyurethane
- Colour black (RAL 9005)

Properties

- High flexibility at low temperatures
- High abrasion resistance
- Loadable under torsion stress ±360°/meter
- Low adhesion
- **Resistant to**
Microbes and rotting
Oxygen and ozone
Vibrations
UV-radiation
Oil and fats resistant
- PUR-jacket flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Application

These special robotic control and signal cables specially designed for torsion and bending stresses in robots and connecting handling tools.

EMC = Electromagnetic compatibility

To optimise the EMC features we recommend a large round contact of the copper braiding on both ends.

C€ = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

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Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
25459	7 x 0,25	5,8	16,8	48,0	24
25439	12 x 0,25	7,6	28,8	71,0	24
25460	25 x 0,25	10,4	60,0	143,0	24
25461	2 x 0,34	4,0	6,6	28,0	22
25462	3 x 0,34	4,0	9,8	34,0	22
25440	7 x 0,34	5,7	22,8	51,0	22
25449	12 x 0,34	8,3	39,2	69,0	22
25463	12 x 0,5	10,4	57,8	90,0	20
25519	16 x 0,5	11,7	76,8	277,0	20
25464	18 x 0,5	12,7	86,4	121,0	20
25465	25 x 0,5	14,2	120,0	256,0	20
25466	4 x 0,75	6,0	28,8	63,0	18
25450	7 x 0,75	7,9	50,4	96,0	18
25467	12 x 0,75	11,5	84,4	171,0	18
25468	14 x 0,75	12,8	100,8	200,0	18
25469	2 x 1	6,0	19,2	48,0	17
25470	3 x 1	6,0	29,0	60,0	17
25471	4 x 1	6,3	38,4	78,0	17
25472	7 x 1	8,5	67,2	131,0	17
25473	12 x 1	12,5	115,2	216,0	17
25474	18 x 1	15,4	172,8	306,0	17
25475	25 x 1	17,4	240,0	432,0	17
25476	34 x 1	21,3	326,4	569,0	17
25477	41 x 1	23,2	393,6	694,0	17
25520	3 x 1,5	6,9	43,2	94,0	16
25529	4 x 1,5	7,9	57,6	107,0	16
25509	8 x 1,5	11,1	115,2	292,0	16
25478	12 x 1,5	15,5	172,8	356,0	16
25479	18 x 1,5	19,3	259,2	445,0	16
25480	25 x 1,5	21,8	360,0	636,0	16
25481	3 x 2,5	8,4	72,0	136,0	14
25482	4 x 2,5	9,1	96,0	170,0	14
25483	3 x 4	10,3	116,0	227,0	12
25530	4 x 4	11,2	153,6	261,0	12
25510	4 x 6	14,1	230,4	341,0	10
25484	3 x 10	15,6	288,0	518,0	8
25485	3 x 16	18,2	460,8	722,0	6
25486	3 x 25	22,9	720,0	1180,0	4
25487	3 x 35	26,5	1008,0	1600,0	2

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Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
25539	10 x 0,14	8,1	34,2	62,0	26
25488	12 x 0,14	7,8	42,1	95,0	26
25489	18 x 0,14	9,7	54,5	120,0	26
25490	25 x 0,14	10,9	69,0	158,0	26
25491	12 x 0,25	8,3	59,5	126,0	24
25492	18 x 0,25	10,1	80,0	164,0	24
25493	25 x 0,25	11,1	103,0	215,0	24
25494	12 x 0,34	8,8	78,0	160,0	22
25495	18 x 0,34	10,8	101,0	210,0	22
25496	25 x 0,34	12,1	158,0	305,0	22
25497	12 x 0,5	11,2	117,0	175,0	20
25498	18 x 0,5	13,6	160,0	231,0	20
25499	25 x 0,5	14,8	255,0	347,0	20
25500	12 x 0,75	11,8	155,0	220,0	18
25501	18 x 0,75	15,0	210,0	305,0	18
25502	25 x 0,75	16,6	275,0	415,0	18
25503	12 x 1	13,0	190,0	265,0	17
25504	18 x 1	16,1	245,0	390,0	17
25505	28 x 1	18,0	345,0	540,0	17
25506	12 x 1,5	16,2	260,0	345,0	16
25507	18 x 1,5	20,3	370,0	485,0	16
25508	25 x 1,5	22,5	498,0	710,0	16

Dimensions and specifications may be changed without prior notice.