

PUR-FLEX-C

Highly flexible screened cables for drag chains, EMC*



Cable structure

- Fine stranded bare copper conductor according to DIN VDE 0295, IEC 60228 cl. 6
- Core insulation of special TPE
- Black cores with repeated white numbering according to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and more)
- Cores stranded in layers with optimal lay-length
- Core wrapping with fleece
- Halogen-free inner sheath
- Screening of tinned copper wires, approx. coverage 85%
- Wrapping with fleece
- Special polyurethane outer sheath color grey, slip resistant outer insulation
- Flame retardant PUR, test method B, according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1

Technical data

- Screened, control, halogen-free cable from special polyurethane for drag chains, designed for high mechanical stress
- **Temperature range** flexing from -30 °C to +80 °C fixed from -50 °C to +80 °C
- **Nominal voltage** U_0/U 300/500 V
- **Spark test** 6000 V
- **Test voltage a.c.** 2000 V
- **Insulation resistance** min. 20 M Ω × km
- **Minimum bending radius** approx. 10× cable diameter
- **Radiation resistance** up to 100×10⁶ cJ/kg (up to 100 Mrad)

Advantages

- High flexibility, resistance to abrasion and mechanical damage even under low temperatures
- Resistant to oils, petrols, hydraulic fluids, acids, ozone, UV radiation, water and microbes
- Halogen-free

Application

PUR-FLEX-C is special cable with high permanent flexibility and resistance to abrasion. Due to its very good mechanical characteristics and resistance to mineral oils is this cable suitable for use in machinery, robotics, steel works and all critical areas. This cable is ideal for drag chains as well as for open air installation due to its resistance to UV-radiation, ozone and moisture. This cable is resistant to microbes but is not suitable for direct burial.

Note

*EMC = Electromagnetic compatibility.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC

OZ = version without green-yellow earth core

Conforms to RoHS. Other sizes available on request.

Part No.	Number of cores × core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0222571 OZ	2 × 0,5	8,3	47,0	90
0222572	3 × 0,5	8,5	52,0	105
0222573	4 × 0,5	9,0	55,0	124
0222574	5 × 0,5	9,7	65,0	132
0222575	7 × 0,5	11,1	84,0	175
0222576	12 × 0,5	12,7	117,0	250
0222577	18 × 0,5	14,7	157,0	325
0222578	20 × 0,5	15,4	167,0	350
0222579	25 × 0,5	17,0	227,0	450
0222580	30 × 0,5	17,9	273,0	510
0222581	36 × 0,5	19,2	306,0	580
0222582 OZ	2 × 0,75	8,8	53,0	110
0222583	3 × 0,75	9,3	62,0	120
0222584	4 × 0,75	9,7	77,0	148
0222585	5 × 0,75	10,5	86,0	160
0222586	7 × 0,75	11,9	106,0	205
0222587	12 × 0,75	14,2	156,0	308
0222588	18 × 0,75	16,3	233,0	420
0222589	20 × 0,75	16,9	249,0	450
0222590	25 × 0,75	19,2	313,0	579
0222591	30 × 0,75	19,7	351,0	630
0222592	36 × 0,75	21,2	400,0	745
0222593 OZ	2 × 1	9,7	60,0	120
0222594	3 × 1	10,0	70,0	135
0222595	4 × 1	10,8	86,0	173

Part No.	Number of cores × core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0222596	5 × 1	11,7	99,0	187
0222597	7 × 1	13,4	124,0	240
0222598	12 × 1	16,0	186,0	360
0222599	18 × 1	18,5	279,0	498
0222600	20 × 1	19,4	322,0	568
0222601	25 × 1	21,7	377,0	670
0222602	30 × 1	22,5	429,0	774
0222603	36 × 1	24,3	516,0	895
0222884	41 × 1	26,1	610,0	1032
0222885	50 × 1	28,4	690,0	1160
0222886	65 × 1	32,2	852,0	1660
0222604 OZ	2 × 1,5	10,2	79	145
0222605	3 × 1,5	11,0	94	168
0222606	4 × 1,5	11,6	113	217
0222607	5 × 1,5	12,6	129	235
0222608	7 × 1,5	14,5	170	325
0222609	12 × 1,5	17,4	279	481
0222610	18 × 1,5	19,9	393	675
0222611	25 × 1,5	23,7	533	927
0222612	30 × 1,5	24,5	607	1025
0222613	36 × 1,5	26,4	702	1210
0222887	42 × 1,5	28,4	829	1441
0222888	50 × 1,5	31,2	1025	1709
0222889	61 × 1,5	34,2	1190	2025
0222614 OZ	2 × 2,5	11,9	104	198

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0222615	3 × 2,5	12,6	129	284
0222616	4 × 2,5	13,6	164	378
0222617	5 × 2,5	14,7	190	423
0222618	7 × 2,5	17,4	274	486
0222619	12 × 2,5	20,9	426	756
0222620	18 × 2,5	24,2	607	1127
0222621	20 × 2,5	25,6	661	1210
0222622	25 × 2,5	29,1	796	1530
0222623	4 × 4	16,5	222	448
0222624	5 × 4	18,1	328	533
0222625	7 × 4	20,0	360	678
0222626	4 × 6	18,1	305	636
0222627	5 × 6	19,6	441	772
0222628	7 × 6	23,2	505	1028
0222629	4 × 10	22,5	485	1052
0222630	5 × 10	24,7	610	1096
0222631	7 × 10	29,3	820	1530
0222632	4 × 16	25,7	840	1386
0222633	5 × 16	28,2	1050	1759
0222634	7 × 16	33,6	1510	2087