

PUR-FLEX

Highly flexible cables for drag chains



Cable structure

- Fine stranded bare copper conductor according to DIN VDE 0295, IEC 60228 cl. 6
- Special core insulation 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 fine fleece
- Special polyurethane outer jacket color grey, slip resistant outer insulation
- Flame retardant PUR, according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1

Technical data

- Special drag chain halogen-free cable from polyurethane for high mechanical stress
- **Temperature range** flexing from -30 °C to +70 °C
fixed from -50 °C to +80 °C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage a.c.** 2000 V
- **Spark test** 6000 V
- **Insulation resistance** min. 20 M Ω × km
- **Minimum bending radius** approx. 7,5× cable diameter
- **Radiation resistance** up to 50×10⁶ cJ/kg (up to 100 Mrad)
- **Advantages** – high flexibility, resistance to abrasion and mechanical strain even under low temperatures
- resistance to oils, petrols, hydraulic fluids, acids, ozone, UV radiation, water and microbes
- halogen-free

Application

PUR-FLEX is a special drag chain cable with permanent high flexibility and resistance to abrasion. Due to its good mechanical characteristics and resistance to mineral oils the cable is ideal for application in machinery, robotics, tool production, steel industry and all critical areas. The cable is also ideal for drag chains thanks to its resistance to abrasion, very good flexibility and small bending radius. The cable can also be used for open air application for its resistance to UV radiation, ozone, moisture or microbes. It is however not suitable for direct burial.

Note

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

OZ = version without green-yellow earth core

Different sizes available on request.

Conforms to RoHS.

Part No.	Number of cores × core cross-section [mm²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0122501 OZ	2 × 0,5	5,5	9,6	38
0122502	3 × 0,5	5,8	14,4	46
0122503	4 × 0,5	6,4	19,0	59
0122504	5 × 0,5	7,0	24,0	68
0122505	7 × 0,5	8,1	33,6	88
0122506	12 × 0,5	9,9	58,0	131
0122507	18 × 0,5	11,5	86,0	197
0122508	20 × 0,5	12,0	96,0	260
0122509	25 × 0,5	13,6	120,0	282
0122510	30 × 0,5	14,3	144,0	315
0122512 OZ	2 × 0,75	6,2	14,4	47
0122513	3 × 0,75	6,5	21,6	58
0122514	4 × 0,75	7,0	28,8	69
0122515	5 × 0,75	7,8	36,0	85
0122516	7 × 0,75	9,0	50,5	118
0122517	12 × 0,75	11,0	86,0	183
0122518	18 × 0,75	12,9	130,0	270
0122519	20 × 0,75	13,5	144,0	290
0122520	25 × 0,75	15,4	180,0	374
0122521	30 × 0,75	16,1	216,0	420
0122523 OZ	2 × 1	6,9	19,2	55
0122524	3 × 1	7,4	29,0	70
0122525	4 × 1	8,0	38,4	86
0122526	5 × 1	8,7	48,0	102
0122527	7 × 1	10,2	67,0	143
0122528	12 × 1	12,6	115,0	225
0122529	18 × 1	18,8	173,0	334
0122530	20 × 1	15,8	192,0	370
0122531	25 × 1	17,8	240,0	460

Part No.	Number of cores × core cross-section [mm²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0122532	30 × 1	18,5	308,0	530
0122533	36 × 1	20,5	346,0	625
0122534 OZ	2 × 1,5	7,6	29,0	70
0122535	3 × 1,5	8,1	43,0	90
0122536	4 × 1,5	8,7	58,0	106
0122537	5 × 1,5	9,7	72,0	145
0122538	7 × 1,5	11,3	101,0	205
0122539	12 × 1,5	13,8	173,0	320
0122540	18 × 1,5	16,3	259,0	465
0122541	20 × 1,5	17,3	288,0	510
0122542	25 × 1,5	19,7	360,0	650
0122543	30 × 1,5	20,3	432,0	750
0122544	36 × 1,5	22,2	518,0	880
0122545 OZ	2 × 2,5	9,2	48,0	115
0122546	3 × 2,5	9,7	72,0	162
0122547	4 × 2,5	10,5	96,0	196
0122548	5 × 2,5	11,6	120,0	230
0122549	7 × 2,5	13,8	168,0	312
0122550	12 × 2,5	16,9	288,0	532
0122551	18 × 2,5	20,0	432,0	762
0122552	20 × 2,5	21,2	480,0	858
0122554	4 × 4	13,1	154,0	283
0122555	5 × 4	14,2	192,0	349
0122556	7 × 4	17,1	269,0	498
0122557	4 × 6	14,3	230,0	432
0122558	5 × 6	15,8	288,0	529
0122561	5 × 10	20,7	480,0	817
0122564	5 × 16	23,8	768,0	1292