

MULTIFLEX-CP



MULTIFLEX-CP is a polyurethane, high flex, heavy-duty, oil-resistant, overall shielded, halogen-free, continuous flex multi-conductor cable designed for use in the machine tool industry, robotics, machine production and drag chains where high flexibility is essential. Suitable for use in permanent flexing and stationary applications under high mechanical stress with free movements in dry, damp and wet areas. These halogen-free cables offer optimum service life and expanded temperature ranges found in moveable machinery, robotics, automated machine parts, cable tracks and multi-shift operations. Best for applications that require extreme bending stress and smallest bending radius possible with long travel distances. The tinned copper braid shield offers effective protection from both internal and external interference. The rugged PUR jacket adds high abrasion, tear resistance and adhesion-free qualities along with good chemical resistance to coolants and mineral oils. Outdoor installation is permitted due to the weather, ozone and UV-resistant outer jacket.



Construction:

- Extra fine bare copper strands
- Strands to VDE-0295 Class-6, IEC 60228 Cl-6
- Special TPE core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- Fleece wrap over each layer of cores
- Gray TPE inner jacket
- 85% Tinned Copper Braid
- Full-PUR outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Flexing bending radius: 7.5 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -40° C to +70° C
- Static temp: -50° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 100 MΩ x km

Approvals:

- VDE-0245, 0281, 0282 Part 1 & 10.
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (28/34) 0,50mm2				
2412002 OZ	2	0.327" / 8.3mm	32	60
2412003	3	0.335" / 8.5mm	35	70
2412004	4	0.354" / 9.0mm	37	83
2412005	5	0.382" / 9.7mm	44	89
2412006	6	0.410" / 10.4mm	50	103
2412007	7	0.437" / 11.1mm	56	117
2412012	12	0.500" / 12.7mm	78	168
2412018	18	0.579" / 14.7mm	105	218
2412020	20	0.606" / 15.4mm	112	235
2412025	25	0.669" / 17.0mm	152	302
2412030	30	0.705" / 17.9mm	183	342
2412036	36	0.756" / 19.2mm	205	389
18 AWG (42/34) 0,75mm2				
2411802 OZ	2	0.346" / 8.8mm	36	74
2411803	3	0.366" / 9.3mm	42	80
2411804	4	0.382" / 9.7mm	52	99
2411805	5	0.413" / 10.5mm	58	107
2411807	7	0.469" / 11.9mm	71	138
2411812	12	0.559" / 14.2mm	105	207
2411818	18	0.642" / 16.3mm	156	282
2411820	20	0.665" / 16.9mm	167	302
2411825	25	0.756" / 19.2mm	210	388
2411830	30	0.776" / 19.7mm	235	423
2411836	36	0.835" / 21.2mm	268	500
17 AWG (56/34) 1,00mm2				
2411702 OZ	2	0.382" / 9.7mm	40	80
2411703	3	0.398" / 10.1mm	47	91
2411704	4	0.425" / 10.8mm	58	116
2411705	5	0.461" / 11.7mm	66	125
2411707	7	0.528" / 13.4mm	83	161
2411712	12	0.630" / 16.0mm	125	241
2411718	18	0.728" / 18.5mm	187	334
2411720	20	0.763" / 19.4mm	216	381

Sizes continued on next page.

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MULTIFLEX-CP Sizes Continued. (17 AWG & Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
17 AWG (56/34) 1,00mm²				
2411725	25	0.854" / 21.7mm	358	449
2411730	30	0.886" / 22.5mm	407	519
2411736	36	0.957" / 24.3mm	471	600
2411741	41	1.028" / 26.1mm	556	692
2411750	50	1.118" / 28.4mm	688	778
2411765	65	1.267" / 32.2mm	798	1113
16 AWG (84/34) 1,50mm²				
2411602 OZ	2	0.402" / 10.2mm	53	97
2411603	3	0.433" / 11.0mm	63	113
2411604	4	0.457" / 11.6mm	76	146
2411605	5	0.496" / 12.6mm	87	158
2411607	7	0.571" / 14.5mm	114	218
2411612	12	0.685" / 17.4mm	187	323
2411618	18	0.783" / 19.9mm	264	453
2411620	20	0.858" / 21.8mm	358	515
2411625	25	0.933" / 23.7mm	407	622
2411636	36	1.039" / 26.4mm	471	812
2411641	41	1.110" / 28.2mm	556	967
2411650	50	1.228" / 31.2mm	688	1146
2411661	61	1.346" / 34.2mm	798	1358
14 AWG (140/34) 2,50mm²				
2411402 OZ	2	0.469" / 11.9mm	70	133
2411403	3	0.496" / 12.6mm	87	190
2411404	4	0.535" / 13.6mm	110	254
2411405	5	0.579" / 14.7mm	127	284
2411407	7	0.685" / 17.4mm	184	326
2411412	12	0.823" / 20.9mm	286	507
2411418	18	0.952" / 24.2mm	407	756
2411420	20	1.007" / 25.6mm	443	811
2411425	25	1.146" / 29.1mm	534	1026
12 AWG (224/34) 4,0mm²				
2411204	4	0.650" / 16.5mm	149	300
2411205	5	0.713" / 18.1mm	220	358
2411207	7	0.787" / 20.0mm	241	455
10 AWG (192/32) 6,0mm²				
2411004	4	0.720" / 18.3mm	205	427
2411005	5	0.772" / 19.6mm	296	518
2411007	7	0.913" / 23.2mm	339	690
8 AWG (320/32) 10,0mm²				
2410804	4	0.886" / 22.5mm	325	706
2410805	5	0.972" / 24.7mm	409	735
2410807	7	1.151" / 29.3mm	550	1026
6 AWG (512/32) 16,0mm²				
2410604	4	1.012" / 25.7mm	563	930
2410605	5	1.110" / 28.2mm	704	1180
2410607	7	1.323" / 33.6mm	1013	1399

* Additional sizes may be available.