

FLEX-CP Polyurethane Jacket



FLEX-CP is a polyurethane, flexible, oil-resistant, overall shielded, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. For use in flexible or stationary applications under high mechanical stress with free movement without any tensile stress, loads or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. The tinned copper braid shield provides interference-free data and signal transmissions and greater protection against electromagnetic distortion. The rugged polyurethane outer jacket ensures excellent chemical, coolant, abrasion and tear resistance making **FLEX-CP** suitable for applications in contact with mineral oils and chemicals. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Gray PVC inner jacket
- 85% Tinned Copper Braid
- 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: 15 x Ø
- Static bending radius: 6 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0282
- 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 (16/32) 0,50mm2				
1642002 OZ	2	0.206" / 6.6mm	22	46
1612003 **	3	0.280" / 7.1mm	26	56
1612004 **	4	0.299" / 7.6mm	31	64
1612005 **	5	0.323" / 8.2mm	35	72
1612007 **	7	0.370" / 9.4mm	46	91
1612012	12	0.445" / 11.3mm	79	131
1612018	18	0.508" / 12.9mm	104	186
1612025	25	0.626" / 15.9mm	168	272
1612034	34	0.701" / 17.8mm	216	394
1612041	41	0.752" / 19.1mm	231	439
1612050	50	0.823" / 20.9mm	274	498
18 AWG (24/32) 0,75mm2				
1641802 OZ	2	0.283" / 7.2mm	27	59
1611803 **	3	0.303" / 7.7mm	33	66
1611804 **	4	0.323" / 8.2mm	39	75
1611805 **	5	0.346" / 8.8mm	47	87
1611807 **	7	0.398" / 10.1mm	58	124
1611812	12	0.484" / 12.3mm	101	197
1611818	18	0.575" / 14.6mm	138	239
1611825	25	0.701" / 17.8mm	173	342
1611834	34	0.736" / 18.7mm	222	461
1611841	41	0.846" / 21.5mm	272	638
1611850	50	0.909" / 23.1mm	322	738
17 AWG (32/32) 1,00mm2				
1641702 OZ	2	0.319" / 8.1mm	31	66
1611703 **	3	0.335" / 8.5mm	38	70
1611704 **	4	0.354" / 9.0mm	47	97
1611705 **	5	0.390" / 9.9mm	57	114
1611707 **	7	0.457" / 11.6mm	72	148
1611712	12	0.567" / 14.4mm	125	235
1611718	18	0.669" / 17.0mm	161	345
1611725	25	0.827" / 21.0mm	230	463
1611734	34	0.902" / 22.9mm	295	612
1611741	41	0.984" / 25.0mm	351	718
1611750	50	1.067" / 27.1mm	419	884

Sizes continued on next page.

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FLEX-CP Sizes Continued. (16 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm²				
1641602 OZ	2	0.335" / 8.5mm	42	87
1611603 **	3	0.350" / 8.9mm	50	102
1611604 **	4	0.382" / 9.7mm	64	112
1611605 **	5	0.425" / 10.8mm	74	136
1611607 **	7	0.492" / 12.5mm	98	205
1611612	12	0.610" / 15.5mm	170	292
1611618	18	0.717" / 18.2mm	245	431
1611625	25	0.866" / 22.0mm	330	539
1611634	34	0.965" / 24.5mm	422	716
1611641	41	1.083" / 27.5mm	514	919
1611650	50	1.146" / 29.1mm	655	1125
14 AWG (50/30) 2,50mm²				
1641402 OZ	2	0.386" / 9.8mm	64	121
1611403	3	0.421" / 10.7mm	99	144
1611404	4	0.449" / 11.4mm	117	180
1611405	5	0.492" / 12.5mm	134	234
1611407	7	0.587" / 14.9mm	157	272
1611412	12	0.724" / 18.4mm	248	483
12 AWG (56/28) 4,00mm²				
1611203	3	0.496" / 12.6mm	119	228
1611204	4	0.559" / 14.2mm	149	274
1611205	5	0.614" / 15.6mm	219	338
1611207	7	0.673" / 17.1mm	237	429
10 AWG (84/28) 6,00mm²				
1611003	3	0.583" / 14.8mm	162	304
1611004	4	0.634" / 16.1mm	205	376
1611005	5	0.709" / 18.0mm	295	470
1611007	7	0.772" / 19.6mm	339	607
8 AWG (80/26) 10,0mm²				
1610803	3	0.717" / 18.2mm	248	503
1610804	4	0.799" / 20.3mm	325	686
1610805	5	0.882" / 22.4mm	410	747
1610807	7	0.972" / 24.7mm	551	1009
6 AWG (128/26) 16,0mm²				
1610604	4	0.921" / 23.4mm	698	929
1610605	5	1.024" / 26.0mm	934	1040
4 AWG (200/26) 25,0mm²				
1610404	4	1.169" / 29.7mm	880	1270
2 AWG (280/26) 35,0mm²				
1610204	4	1.335" / 33.9mm	1081	1606
1 AWG (400/26) 50,0mm²				
1610104	4	1.535" / 39.0mm	1488	2221
2/0 AWG (356/24) 70,0mm²				
1612104	4	1.835" / 46.6mm	2074	3089
3/0 AWG (485/24) 95,0mm²				
1613104	4	2.004" / 50.9mm	2725	4061
4/0 AWG (614/24) 120,0mm²				
1614104	4	2.185" / 55.5mm	3457	4908

* Additional sizes may be available.

** Sizes available as FLEX-CP-OZ (164) - no ground wire construction

Flexible Control Cables