

FLEX-CP-RD Reduced Diameter



FLEX-CP-RD is a polyurethane, flexible, oil-resistant, overall shielded, reduced diameter, 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 common PVC inner jacket is replaced by a foil separator giving this cable reduced diameter, bending radius and weight. 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-RD** suitable for applications in contact with mineral oils and chemicals.



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
- Plastic separating foil
- 85% tinned copper braid
- special PUR outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Increased oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 4000 volts
- Flexing bending radius: 10 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -40° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250 & 0282
- CE Low Volt Directive 73/23/EEC, 93/68/EEC and 2006/95/EG
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm²				
1652002 OZ	2	0.228" / 5.8mm	23	30
1622003 **	3	0.240" / 6.1mm	28	38
1622004 **	4	0.256" / 6.5mm	32	44
1622005 **	5	0.276" / 7.0mm	38	50
1622007 **	7	0.299" / 7.6mm	46	65
1622012 **	12	0.386" / 9.8mm	72	106
1622018 **	18	0.457" / 11.6mm	97	146
1622025 **	25	0.524" / 13.3mm	161	211
18 AWG (24/32) 0,75mm²				
1651802 OZ	2	0.244" / 6.2mm	27	40
1621803 **	3	0.260" / 6.6mm	35	45
1621804 **	4	0.280" / 7.1mm	40	51
1621805 **	5	0.303" / 7.7mm	48	62
1621807 **	7	0.331" / 8.4mm	61	88
1621812 **	12	0.425" / 10.8mm	95	137
1621818 **	18	0.500" / 12.7mm	142	195
1621825 **	25	0.583" / 14.8mm	188	277
1621834	34	0.654" / 16.6mm	231	325
17 AWG (32/32) 1,00mm²				
1651702 OZ	2	0.260" / 6.6mm	34	44
1621703 **	3	0.272" / 6.9mm	40	55
1621704 **	4	0.291" / 7.4mm	48	67
1621705 **	5	0.319" / 8.1mm	59	86
1621707 **	7	0.350" / 8.9mm	74	105
1621712	12	0.461" / 11.7mm	123	176
1621718	18	0.551" / 14.0mm	174	256
1621725	25	0.622" / 15.8mm	234	359
1621734	34	0.705" / 17.9mm	326	496
1621742	42	0.760" / 19.3mm	366	573
1621750	50	0.835" / 21.2mm	419	689

Sizes continued on next page.

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

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm²				
1651602 OZ	2	0.280" / 7.1mm	44	65
1621603 **	3	0.295" / 7.5mm	55	84
1621604 **	4	0.323" / 8.2mm	67	111
1621605 **	5	0.354" / 9.0mm	80	129
1621607 **	7	0.386" / 9.8mm	103	164
1621612	12	0.520" / 13.2mm	180	245
1621618	18	0.618" / 15.7mm	250	371
1621625	25	0.709" / 18.0mm	355	492
1621634	34	0.815" / 20.7mm	458	633
1621642	42	1.028" / 26.1mm	549	698
1621650	50	1.079" / 27.4mm	594	867
14 AWG (50/30) 2,50mm²				
1621403	3	0.354" / 9.0mm	79	126
1621404	4	0.390" / 9.9mm	99	158
1621405	5	0.437" / 11.1mm	118	181
1621407	7	0.465" / 11.8mm	170	228
1621412	12	0.638" / 16.2mm	238	395
1621418	18	0.752" / 19.1mm	382	656
1621425	25	0.878" / 22.3mm	555	911
12 AWG (56/28) 4,00mm²				
1621203	3	0.413" / 10.5mm	117	163
1621204	4	0.461" / 11.7mm	154	208
1621205	5	0.524" / 13.3mm	183	259
1621207	7	0.571" / 14.5mm	212	334
10 AWG (84/28) 6,00mm²				
1621003	3	0.480" / 12.2mm	161	223
1621004	4	0.535" / 13.6mm	205	278
1621005	5	0.598" / 15.2mm	294	342
1621007	7	0.614" / 15.6mm	339	451
8 AWG (80/26) 10,0mm²				
1620804	4	0.677" / 17.2mm	359	476
6 AWG (128/26) 16,0mm²				
1620604	4	0.799" / 20.3mm	537	704
4 AWG (200/26) 25,0mm²				
1620404	4	0.988" / 25.1mm	721	1053
2 AWG (280/26) 35,0mm²				
1620204	4	1.110" / 28.2mm	1057	1388

* Additional sizes may be available.

** Sizes available as FLEX-CP-RD-OZ (165) - no ground wire construction