

FLEX-54-CP Yellow Polyurethane



FLEX-54-CP is a yellow polyurethane, flexible, oil-resistant, overall shielded, multi-conductor safety power supply cable designed for use in all electrical equipment in wet and dry conditions in both hot and cold temperatures. Suitable for use in flexible or stationary applications. Common applications include machine tool connections, extension and connections to hand-held devices and in construction and camping appliances. Found in portable hand tools, power supply lines, construction sites, mobile sales booths, gardening equipment, agriculture equipment and car wash equipments. The halogen-free and flame retardant polyurethane outer jacket ensures excellent chemical, coolant, abrasion and tear resistance making **FLEX-54-CP** suitable for applications in contact with mineral oils and chemicals. The tinned copper braid ensures interruption-free power and supply used in data processing. Indoor and outdoor installations are both permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special TPE core insulation
- Color code VDE-0293-308
- Cores twisted in layers
- Yellow TPE inner jacket
- 85% Tinned Copper Braid
- PUR outer jacket - yellow (RAL 1016)
- "OB" denotes no ground wire
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Voltage 450/750v (16 AWG and up)
- Test voltage: 3000 volts
- Flexing bending radius: 12,5 x Ø
- Static bending radius: 5 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
18 AWG (24/32) 0,75mm²				
1751802 OB	2	0.339" / 8.6mm	30	69
1751803	3	0.378" / 9.6mm	46	94
1751804	4	0.402" / 10.2mm	50	105
1751805	5	0.425" / 10.8mm	57	110
1751807 *	7	0.488" / 12.4mm	64	142
17 AWG (32/32) 1,00mm²				
1751702 OB	2	0.378" / 9.6mm	44	93
1751703	3	0.394" / 10.1mm	50	103
1751704	4	0.409" / 10.4mm	52	110
1751705	5	0.441" / 11.2mm	58	124
1751707 *	7	0.547" / 13.9mm	93	189
16 AWG (30/30) 1,50mm²				
1751602 OB	2	0.417" / 10.6mm	46	107
1751603	3	0.437" / 11.2mm	55	122
1751604	4	0.476" / 12.1mm	68	146
1751605	5	0.539" / 13.7mm	96	193
1751607 *	7	0.657" / 16.7mm	131	265
14 AWG (50/30) 2,50mm²				
1751402 OB	2	0.480" / 12.2mm	62	143
1751403	3	0.528" / 13.4mm	80	177
1751404	4	0.575" / 14.6mm	113	224
1751405	5	0.654" / 16.6mm	137	280
12 AWG (56/28) 4,0mm²				
1751203	3	0.638" / 16.2mm	133	273
1751204	4	0.685" / 17.4mm	161	320
1751205	5	0.764" / 19.4mm	213	404
10 AWG (84/28) 6,0mm²				
1751004	4	0.756" / 19.2mm	238	426
1751005	5	0.756" / 20.9mm	303	426
8 AWG (80/26) 10,0mm²				
1750804	4	0.929" / 23.6mm	387	667
1750805	5	0.929" / 25.5mm	457	667

* 7 core color code is all black w/ white numbers and a green/yellow ground.

** Additional sizes may be available.