

FLEX-OB Colored Cores - No Ground



FLEX-OB is our most standard PVC, flexible, oil-resistant, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. The **FLEX-OB** construction offers the new European VDE-0293-308 color code with no green/yellow ground wire. For use in flexible or stationary applications under medium 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. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Color code VDE-0293-308
- For 6 cores and up, use **OB Full Color** chart
- No ground wire
- PVC outer jacket - gray (RAL 7001)
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 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, 0281, 0293 & 0295
- 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 | | | | |
| 1002002 | 2 | 0.189" / 4.8mm | 7 | 27 |
| 1002003 | 3 | 0.201" / 5.1mm | 9 | 30 |
| 1002004 | 4 | 0.224" / 5.7mm | 13 | 38 |
| 1002005 | 5 | 0.244" / 6.2mm | 16 | 44 |
| 1002007 | 7 | 0.291" / 7.4mm | 23 | 54 |
| 18 AWG (24/32) 0,75mm² | | | | |
| 1001802 | 2 | 0.205" / 5.2mm | 9 | 31 |
| 1001803 | 3 | 0.217" / 5.5mm | 15 | 36 |
| 1001804 | 4 | 0.244" / 6.2mm | 19 | 44 |
| 1001805 | 5 | 0.268" / 6.8mm | 24 | 54 |
| 1001807 | 7 | 0.319" / 8.1mm | 34 | 74 |
| 17 AWG (32/32) 1,00mm² | | | | |
| 1001702 | 2 | 0.217" / 5.5mm | 13 | 40 |
| 1001703 | 3 | 0.236" / 6.0mm | 19 | 48 |
| 1001704 | 4 | 0.260" / 6.6mm | 25 | 58 |
| 1001705 | 5 | 0.283" / 7.2mm | 32 | 70 |
| 1001707 | 7 | 0.339" / 8.6mm | 45 | 95 |
| 16 AWG (30/30) 1,50mm² | | | | |
| 1001602 | 2 | 0.248" / 6.3mm | 19 | 47 |
| 1001603 | 3 | 0.264" / 6.7mm | 29 | 60 |
| 1001604 | 4 | 0.287" / 7.3mm | 39 | 73 |
| 1001605 | 5 | 0.323" / 8.2mm | 48 | 88 |
| 1001607 | 7 | 0.386" / 9.8mm | 68 | 123 |
| 14 AWG (50/30) 2,50mm² | | | | |
| 1001402 | 2 | 0.299" / 7.6mm | 32 | 75 |
| 1001403 | 3 | 0.327" / 8.3mm | 48 | 99 |
| 1001404 | 4 | 0.358" / 9.1mm | 64 | 119 |
| 1001405 | 5 | 0.402" / 10.2mm | 80 | 148 |
| 12 AWG (56/28) 4,00mm² | | | | |
| 1001202 | 2 | 0.362" / 9.2mm | 52 | 131 |

Additional sizes may be available.