

# FLEX-OB

PVC, Colored Cores, Non-Shielded, No Ground, 450/750V



**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 or 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 and stationary applications under medium mechanical stress with free movement without any tensile stress, load 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 (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
<b>20 AWG (16/32) 0,50mm<sup>2</sup></b>					
1002002	2	0.209"	5.3mm	6	24
1002003	3	0.217"	5.5mm	10	30
1002004	4	0.236"	6.0mm	14	38
1002005	5	0.260"	6.6mm	17	49
1002007	7	0.287"	7.3mm	24	58
<b>18 AWG (24/32) 0,75mm<sup>2</sup></b>					
1001802	2	0.220"	5.6mm	10	36
1001803	3	0.232"	5.9mm	16	49
1001804	4	0.268"	6.8mm	21	58
1001805	5	0.307"	7.8mm	26	74
1001807	7	0.327"	8.3mm	36	88
<b>17 AWG (32/32) 1,00mm<sup>2</sup></b>					
1001702	2	0.260"	6.6mm	13	41
1001703	3	0.276"	7.0mm	21	53
1001704	4	0.307"	7.8mm	28	71
1001705	5	0.346"	8.8mm	35	85
1001707	7	0.370"	9.4mm	48	102
<b>16 AWG (30/30) 1,50mm<sup>2</sup></b>					
1001602	2	0.283"	7.2mm	19	60
1001603	3	0.299"	7.6mm	31	75
1001604	4	0.327"	8.3mm	42	87
1001605	5	0.370"	9.4mm	52	104
1001607	7	0.402"	10.2mm	73	137
<b>14 AWG (50/30) 2,50mm<sup>2</sup></b>					
1001402	2	0.362"	9.2mm	32	83
1001403	3	0.386"	9.8mm	52	105
1001404	4	0.433"	11mm	69	144
1001405	5	0.476"	12.1mm	87	170
<b>12 AWG (56/28) 4,00mm<sup>2</sup></b>					
1001202	2	0.425"	10.8mm	52	124

