

FLEX-IS-OZ Intrinsically-Safe



FLEX-IS-OZ is an intrinsically-safe, blue jacketed, flexible, oil-resistant, multi-conductor power and control cable designed for use in electrical equipment in dry, damp, wet and hazardous type -i- conditions. 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 to machinery and electrical apparatus found in intrinsically-safe power circuits. These intrinsically safe circuits are circuits in which sparks and thermal effects cannot cause ignition in explosive atmospheres at normal operation or dangerous conditions. These installations are not grounded and require a separate power circuit, therefore the "OZ" color code has no ground wire. **FLEX-IS-OZ** cables are designed for appropriate use in a voltage range below 50V AC or 75V DC. Outdoor and direct burial installations are 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 - black & numbered
- No ground wire
- Special PVC outer jacket - blue (RAL 5015)
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Flexing bending radius: 15 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, 02821, 0282
- VDE-0165 Part-1 Intrinsically Safe
- DIN EN 60079-14
- IEC 60079-14 Section 12.2.2
- 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				
1901802	2	0.205" / 5.2mm	9	31
1901803	3	0.217" / 5.5mm	15	36
1901804	4	0.244" / 6.2mm	19	44
1901805	5	0.268" / 6.8mm	24	54
1901807	7	0.319" / 8.1mm	35	74
1901808	8	0.351" / 8.9mm	39	87
1901812	12	0.390" / 9.9mm	59	120
1901818	18	0.469" / 11.9mm	87	172
1901825	25	0.571" / 14.5mm	121	245
1901830	30	0.622" / 15.8mm	144	300
1901834	34	0.646" / 16.4mm	164	342
1901841	41	0.693" / 17.6mm	200	407
17 AWG (32/32) 1,00mm2				
1901702	2	0.217" / 5.5mm	13	40
1901703	3	0.236" / 6.0mm	19	48
1901704	4	0.260" / 6.6mm	25	58
1901705	5	0.283" / 7.2mm	32	70
1901707	7	0.339" / 8.6mm	45	95
1901712	12	0.421" / 10.7mm	77	154
1901718	18	0.501" / 12.7mm	116	230
1901725	25	0.614" / 15.6mm	161	325
16 AWG (30/30) 1,50mm2				
1901602	2	0.248" / 6.3mm	19	47
1901603	3	0.264" / 6.7mm	29	60
1901604	4	0.287" / 7.3mm	39	73
1901605	5	0.323" / 8.2mm	48	88
1901607	7	0.386" / 9.8mm	68	123
1901612	12	0.476" / 12.1mm	116	207
1901618	18	0.571" / 14.5mm	174	295
1901625	25	0.701" / 17.8mm	241	416
1901630	30	0.791" / 20.1mm	295	567
14 AWG (50/30) 2,50mm2				
1901403	3	0.327" / 8.3mm	48	99
1901404	4	0.358" / 9.1mm	64	119
1901405	5	0.402" / 10.2mm	80	148

* Additional sizes may be available.