

## FLEX-IS-JZ Intrinsically-Safe



**FLEX-IS-JZ** 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. This special “JZ” color code includes a green/yellow ground for specially grounded power circuits. **FLEX-IS-JZ** cables are designed for appropriate use in a voltage range below 50V AC or 75V DC. Outdoor and direct burial uses 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
- Ground wire present
- Special PVC outer jacket - blue (RAL 5015)
- **Extremely oil & chemical resistant**

### Technical:

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Flexing bending radius: 15.0 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, 0281, 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
<b>18 AWG (24/32) 0,75mm<sup>2</sup></b>				
1931803	3	0.217" / 5.5mm	15	36
1931804	4	0.244" / 6.2mm	19	44
1931805	5	0.268" / 6.8mm	24	54
1931807	7	0.319" / 8.1mm	35	74
1931812	12	0.390" / 9.9mm	59	120
1931818	18	0.469" / 11.9mm	87	172
1931825	25	0.571" / 14.5mm	121	245
<b>17 AWG (32/32) 1,00mm<sup>2</sup></b>				
1931703	3	0.236" / 6.0mm	19	48
1931704	4	0.260" / 6.6mm	25	58
1931705	5	0.283" / 7.2mm	32	70
1931707	7	0.339" / 8.6mm	45	95
1931712	12	0.421" / 10.7mm	77	154
1931718	18	0.501" / 12.7mm	116	230
1931725	25	0.614" / 15.6mm	161	325
<b>16 AWG (30/30) 1,50mm<sup>2</sup></b>				
1931603	3	0.264" / 6.7mm	29	60
1931604	4	0.287" / 7.3mm	39	73
1931605	5	0.323" / 8.2mm	48	88
1931607	7	0.386" / 9.8mm	68	123
1931612	12	0.476" / 12.1mm	116	207
1931618	18	0.571" / 14.5mm	174	295
1931625	25	0.701" / 17.8mm	241	416

\* Additional sizes may be available.