

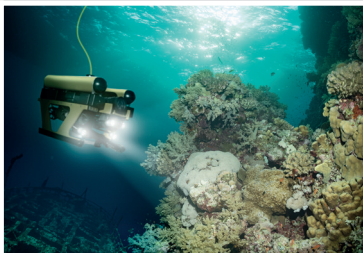
FISCHER ULTIMATE™ SERIES

FISCHER ULTIMATE™ 80

FIELD-READY CONNECTIVITY

UP TO **AWG 22**

- Rugged & reliable
- Environmentally sealed
- Lightweight



REIMAGINING CONNECTIVITY
TOGETHER



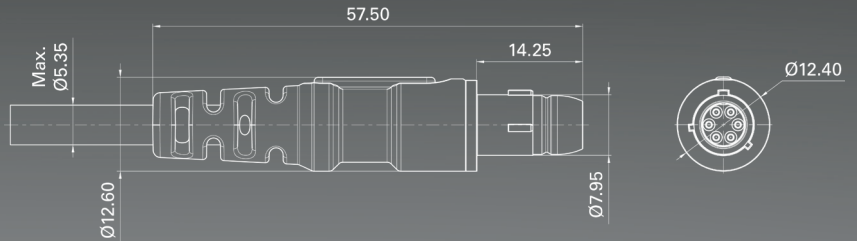


FISCHER ULTIMATE™ SERIES

FISCHER ULTIMATE™ 80

SIZE 1:1

TECHNICAL DIMENSIONS



All dimensions are in millimeters and images are for reference only.

ENVIRONMENTAL & MECHANICAL DATA

Characteristic	Performance		Standard
Sealing	Connectors in mated/unmated condition	IP68, 2m/24h	IEC 60529, MIL-STD-810 Method 512.6
Operating temperature range (connectors only)	-55 °C to +135 °C		MIL-STD-810 Method 501.6 and 502.6
Corrosion resistance mated	Salt mist 500 h Cosmetic changes may appear over time without impacting mechanical or electrical functions		MIL-STD-810 Method 509.6
Mechanical endurance	10,000 mating cycles Preserved mechanical and electrical functionality Normal wear could appear		IEC 60512-9-1
Random Vibration	7.7G _{rms}		MIL-STD-810 Method 514.7
Unmating force	Typical 55 ± 15 N		IEC 60512-13-1
Shock	100 G		MIL-STD-810 Method 516.7 Condition I
Locking system	Quick release		Compatible with NATO STANAG 4695

ELECTRICAL DATA

Characteristic	Performance	Standard
Contact resistance	< 10 mΩ (typical value)	MIL-STD-202 Method 307
Shell resistance	< 10 mΩ (cabled; new condition)	MIL-STD-202 Method 307
Insulation resistance	> 10 ¹⁰ Ω	MIL-STD-202 Method 302, IEC 60512-13-1
Shielding effectiveness	360° shielded, typical > 55 dB up to 1 GHz	
Test voltage	750 V AC	IEC 60512-4-1 Method C
Current rating	5 A	IEC 60512-5-2

MATERIAL & SURFACE FINISH



- 1 Bend relief – TPE
- 2 Housing – Aluminum Black
- 3 Pins – Brass / Gold Plated