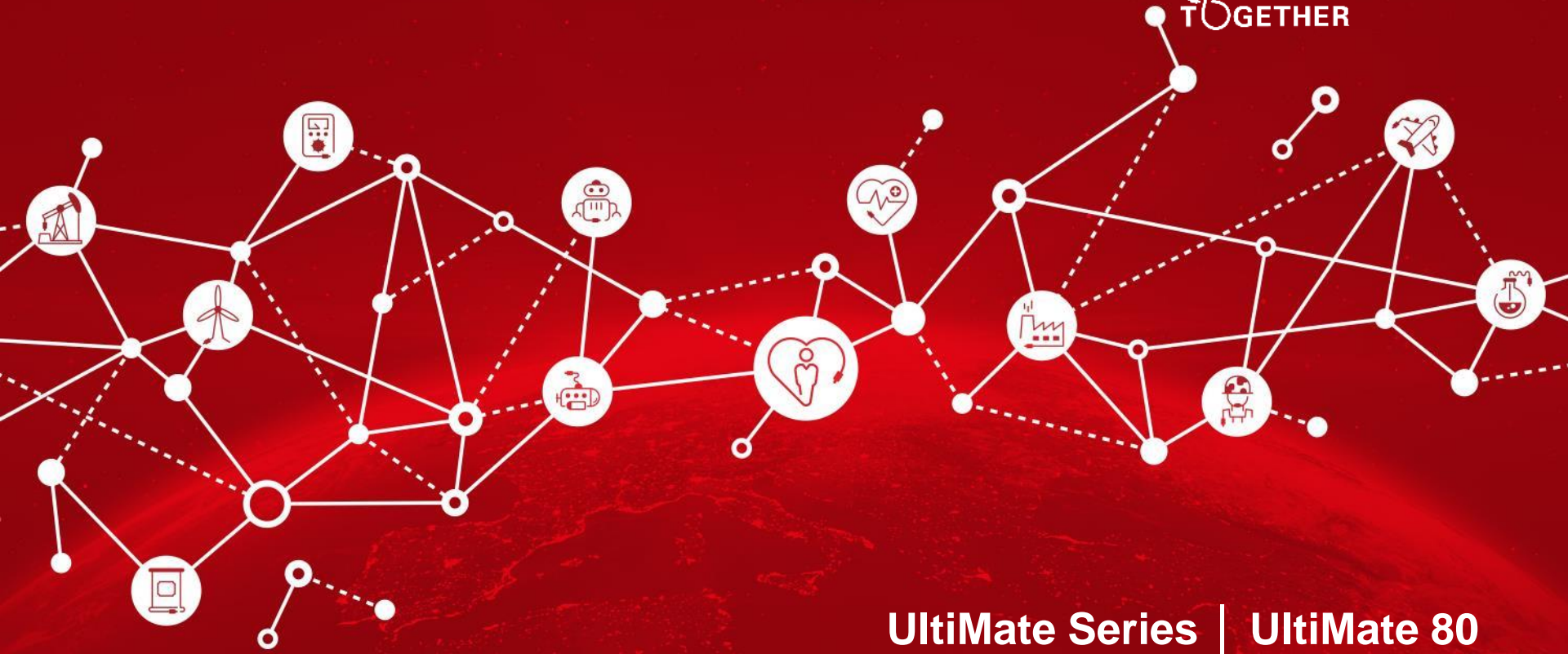


REIMAGINING CONNECTIVITY
TOGETHER



UltiMate Series | UltiMate 80

Sales & Product teams, 30.09.2020

UltiMate Series | New range extension: UltiMate 80



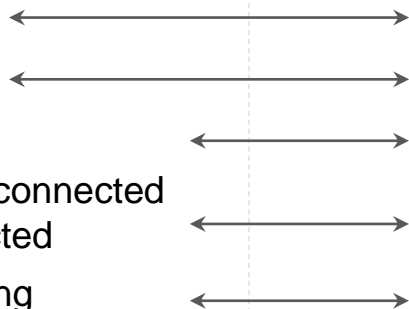
FISCHER ULTIMATE™ SERIES

RUGGED | COMPACT | LIGHTWEIGHT

ULTIMATE



- Rugged
- Compact
- Lightweight
- IP68 / IP69 connected & disconnected
- Robust keying



FISCHER ULTIMATE™ 80



- ✓ Rugged
- ✓ Compact (Size 08)
- ✓ Lightweight (Aluminium)
- ✓ IP68 connected / disconnected
- ✓ Same robust keying design

+ NATO STANAG 4695 compatibility

+ ITAR FREE

UltiMate Series | UltiMate 80

Rugged

Light

Environmentally sealed

Compatible NATO STANAG 4695



UltiMate 80 | Product Unique Selling Points (USP)

Rugged

Light

Environmentally sealed

Compatible NATO STANAG 4695

- ✓ High resistance to corrosion (500h salt mist)
- ✓ 10 000 mating cycles (receptacle limitations)
- ✓ Random vibration 7,7 Grms
- ✓ Shock resistant (100G)
- ✓ Cable bending resistance (+/- 90° for 5000 cycles)
- ✓ Temperature (-55°C to +135°C)
- ✓ Triple key coding (Ultimate coding way)



UltiMate 80 | Product Unique Selling Points (USP)

Rugged

Light

Environmentally sealed

Compatible NATO STANAG 4695

- ✓ Housing material in Aluminium:
2,1 g



UltiMate 80 | Product Unique Selling Points (USP)

Rugged

Light

Environmentally sealed

Compatible NATO STANAG 4695

- ✓ Connector Ingress Protection mated
IP68 -2m / 24h
- ✓ Connector Ingress Protection unmated:
IP68 -2m / 24h



UltiMate 80 | Product Unique Selling Points (USP)

Rugged

Light

Environmentally sealed

Compatible NATO STANAG 4695



- ✓ Plug fully compatible with:
 - Receptacle Glenair Mighty Mouse 80 / 804 serie (6-6)
 - Receptacle TE Connectivity O.C.H. Micro Circular Connectors

UltiMate 80 | Compatible with NETT WARRIOR System Environment



Dismounted Soldier **Batteries**



Dismounted Soldier **Hub**

UltiMate 80 | Salt Spray: MIL-STD-810 Method 509.6 Comparison

TE
2226910-1



96h

140h

GLENAIR
8070-1676-06ZNU6-6PY



96h

FISCHER
135976 (black)



200h



300h



500h

time

0

100h

200h

300h

400h

500h



No signs of corrosion



Corroded but functional



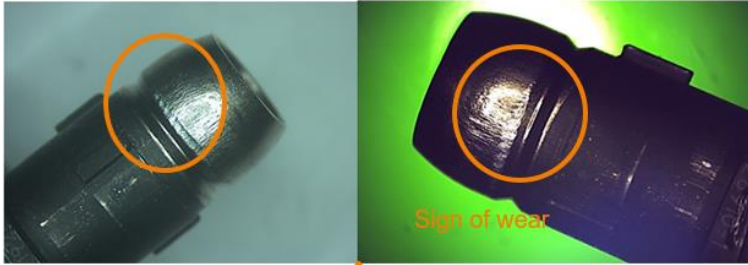
Lost of functionality

UltiMate 80 | Cable bending: $\pm 90^\circ$, 5000 cycles



UltiMate 80 | Mating cycles: 10'000 cycles

TE
2226910-1



2000 

FISCHER
135976 (black)



2000

5000

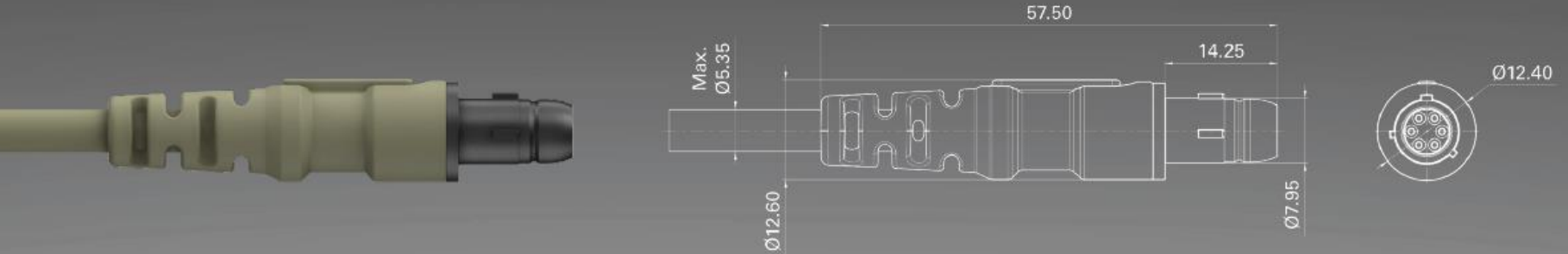


No signs of wear

10000



TECHNICAL DIMENSIONS



UltiMate 80 | Technical Dimension

ENVIRONMENTAL & MECHANICAL DATA

Characteristic	Performance		Standard
Sealing	Connectors in mated condition Connectors in unmated condition	IP68, 2 m/24 h IP68, 2 m/24 h	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	7.7 G _{rms}		MIL-STD-810 Method 514.7
Unmating force	Typical 55 ± 15 N		IEC 60512-13-1
Shock	100G		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 m Ω (typical value)	MIL-STD-202 Method 307
Shell resistance	< 10 m Ω (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° Shield Typical > 55dB up to 1 GHz	
Contact rating	Voltage	750 V AC IEC 60512-4-1 Method C
	Current	5 A IEC 60512-5-2



MATERIAL & SURFACE FINISH



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

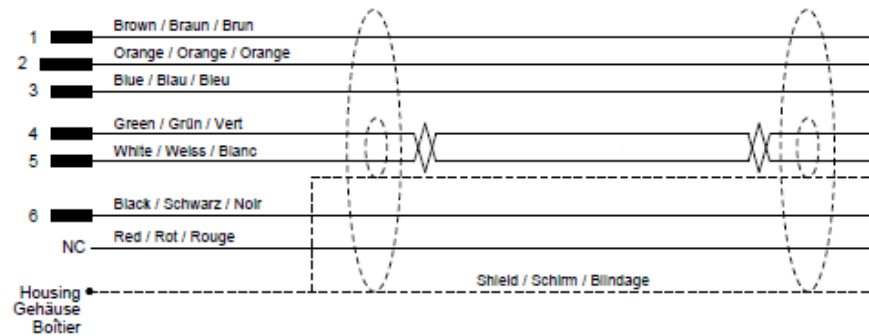
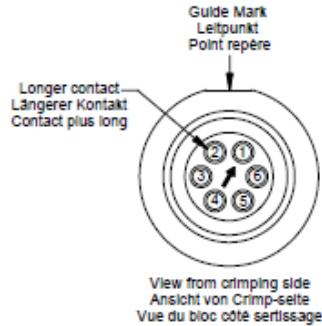
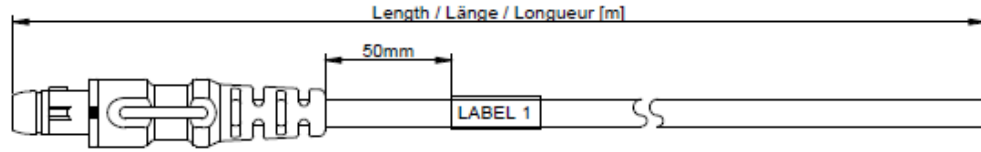
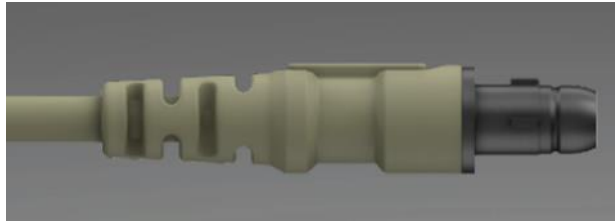
UltiMate 80 | Vs. Competition

	
Sealing	IP68 -2m/24h
Mating Cycles	10,000
Salt Spray	500h
Weight	2.1 g
Housing	Full Matt Black

	
	IP67 -1m/1h
	2'000
	500h (<i>announced</i>)
	2.8g
	Black & nickel Shiny

	
	IP67
	2'000
	96h (<i>tested</i>)
	2.6g
	Black & nickel Shiny

UltiMate 80 | Standard Offer Availability



135976 CA S 06 UP81Q08BBYA/OE PUR TN 1.0M

UltiMate 80 | Markets: Primarily Defense... but not only



Rugged designed



IP68 mated/unmated



Lightweight



Stanag 4695 compatible



ITAR Free



Best value for money

**AVAILABLE
NOW**

Ready to be ordered!