

Tactical Cable Assemblies



Fibreco manufactures custom fibre optic cable assemblies for a wide range of military and industrial harsh environment applications.

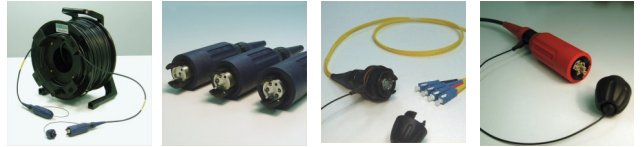
Our manufacturing facility is geared for volume termination of Fibreco Senior, Junior and Mini expanded beam connectors. We keep large stocks of singlemode and multimode tactical fibre optic cable and deployable cable reels enabling fast turn-round production of all deployable cable assemblies, harnesses and bulkhead assemblies.

Our facility is fully equipped with the latest automated termination, polishing and testing technology including interferometer ferrule end face characterisation and Optical Time Domain Reflectometer testing.

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Tactical Cable Assemblies - Outline Specification

Cable Characteristics (typical):

Cable Diameter	2 core: 5.0mm / 4 core: 5.5mm / 6 core: 6.0mm / 8 core: 6.5mm / 12 core: 6.5mm / 16 core: 7.5mm
Weight	2 core: 21kg/km / 4 core: 27kg/km / 6 core: 32kg/km / 8 core: 38kg/km / 12 core: 51kg/km / 16 core: 60kg/km
Tensile Load (short term)	1800N
Operating Temperature	-55°C to +85°C
Storage Temperature	-70°C to +85°C
Crush Resistance	440N/cm
Impact Resistance	200 Impacts (EIA/TIA-455-24 Mil)
Minimum Bend Radius	10X Sheath Diameter
Sheath Material / Colour	Polyurethane, Matt Black

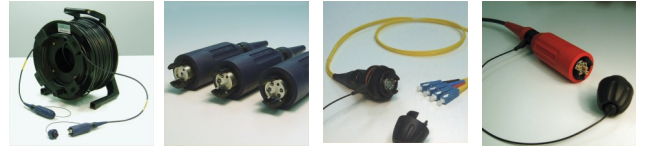
Multimode Fibre Characteristics (typical):

Fibre Type	Attenuation dB/km		Bandwidth MHz/km		NA
	850nm	1300nm	850nm	1300nm	
62.5/125 OM1	3.5	1.5	200	500	0.27
50/125 OM2	3.5	1.5	500	500	0.20

Singlemode Fibre Characteristics (typical):

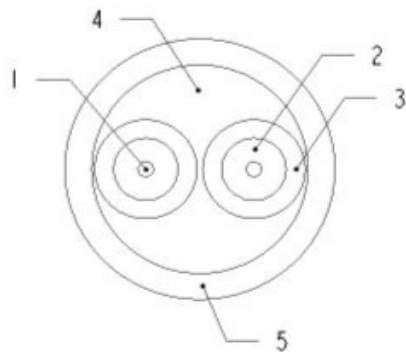
Fibre Type	Attenuation dB/km		Dispersion ps/nm.km		RI
	1310nm	1550nm	1310nm	1550nm	
9/125 OS1	0.5	0.5	3.5	18.0	1.470

Other fibre specifications available by request



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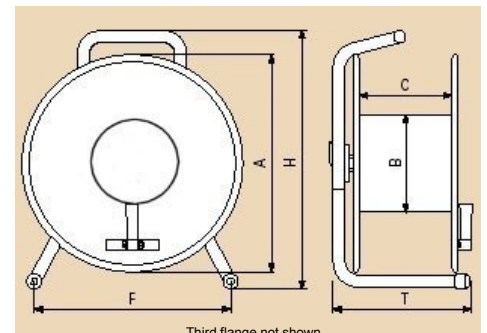
Tactical Cable Construction (typical):



- 1 Optical Fibre
- 2 Acrylate Fibre Coating
- 3 Colour Coded 900um Buffer
- 4 Aramid Strength Member
- 5 Polyurethane Jacket

Deployable Cable Reels:

Reel Ref	Recommended Cable Capacity (metres)				
	2 core (Ø 5.0mm)	4 core (Ø 5.5mm)	6 core (Ø 6.0mm)	8 & 12 core (Ø 6.5mm)	16 core (Ø 7.5mm)
R0310	180	150	125	100	80
R0380	350	300	250	200	150
R0385	600	500	350	300	250
R0582	1000	750	600	500	400



Reel Ref	Material	Weight kg	Ø A	Ø B	Width C	Width F	Height H	Depth T
R0310	Non-Metallic	2.5	310	170	112	262	360	230
R0380	Steel	6.0	380	178	142	300	450	230
R0385	Steel	7.0	380	178	210	300	460	290
R0582	Steel	12.5	580	320	170	430	710	250

