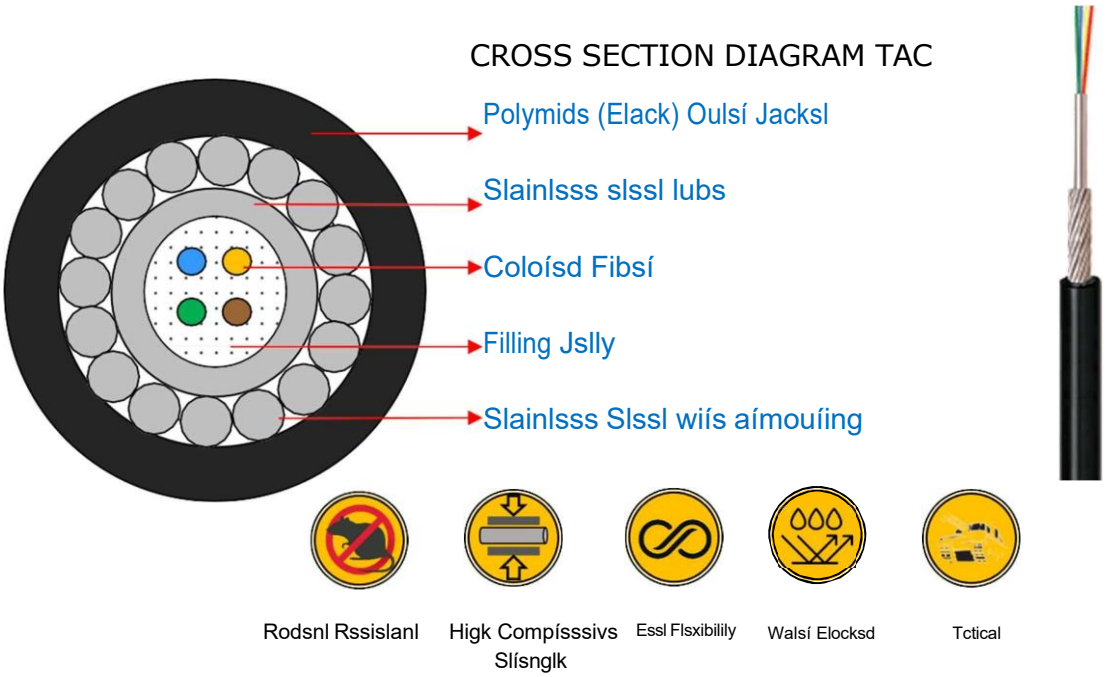
Technical Data Sheet for Tactical Optical Fiber Cable (TAC OFC) Single Mode Four Core

Cable Drawing Number	**ANDA-TAC-4CR-OFC-OCT-2024**
Model Number	**ANDA-TAC-4CR-OFC**
Cable Description	**Tactical Optical Fiber Cable (TAC OFC) Single Mode Four Core**
Type of Fiber	**Single Mode ITU-T Rec G.652D**



Product Application

This product is specially designed for Tactical military application under extreme environmental conditions like temperature, humidity, fungus, ice and liquid. These cable are capable of rapid deployment

Product Construction

- Optical Fibers with primary coating and colouring
- Gel Filled Stainless Steel loose tube Core.
- Armoring and strain relief made of stainless steel wire.
- Polymide outer jacket – Black Colour with extra abrasion resistance

Product Features

- Central stainless steel Gel Filled tube with 4 Fibers..
- The Cable designed with high permissible tensile Strength, crush resistance, high durable abrasion resistant

Anda Telecom Pvt. Ltd.
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jacket and optimum flexibility

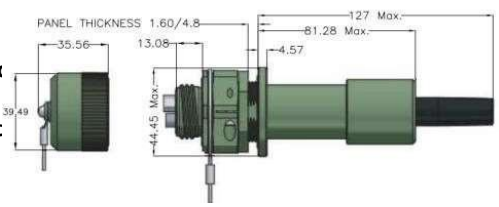
- The product is offered with complete package containing cable with pre-fitted MIL grade hermaphrodite
- connectors on both side in light weight metallic reel and reusable metallic box along with other accessories

Cable specification

Mechanical and Other parameters	
Minimum Bend Radius - Short Term	**< 4.6 cm**
Minimum Bend Radius - Long Term	**< 10 cm**
Tensile strength	**> 900 N**
Breaking load	**> 3500 N**
Crushing Resistance	**> 1000 N/cm**
Cable Diameter	**< 6 mm**
Cable weight	**27 Kg/Km ± 10%**
Operation Temperature	**-20°C To +60°C**
Storage Temperature	**-30°C To + 65°C**
Water Pressure	**> 500 bar**
Cable Length Per Drum (Meters)	500/ 1000 / 2000
Cable Compliance to Standard	**JSS: 6015-01 : 2007, IEC 60794, ITU-T, Tele Cordia GR-20, JSS 6020-02: 2008**
Transmission parameters of Optical Fiber (ITU-T Rec G.652D)	
Attenuation (dB/Km)	
At 1310 nm	≤ 0.36
6l 1550 nm	≤ 0.25
Fiber cut-off wavelength	**≤ 1320 nm**
ode Field Diameter @1310 nm	9.2 ± 0.5 µm
Dispersion	
12®5-1330 nm	**≤ 3.5 ps/nm.km**
1550 nm	**≤ 18 ps/nm.km**
Zero Dispersion wavelength	**1300-1324 nm**
Zero Dispersion Slope	**≤ 0.092ps/nm².km**
PMD Co-efficient	
At Fiber- 1310nm & 1550nm	**≤ 0.2 ps/sqít.km**
At Cable Fiber- 1310nm & 1550nm	**≤ 0.3 ps/sqíl.km**
Fiber Geometry	
Coating Diameter (Uncolored)	**245 ± 10 µm**
Cladding Diameter	**125 ± 1.0 µm**
Cladding Non-Circularity	**≤ 1 %**
Mode Field Concentricity error	**≤ 0.8 µm**
Coating/Cladding concentricity Error	**≤ 12 µm**
Fiber Curl	**≥ 4 m radius curvature**

TAC Connectors Drawing Specification

JAM NUT RECEPTACLE SHELL STRAIN RELIEF RECEPTACLE



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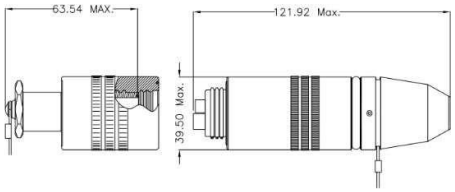
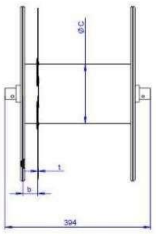
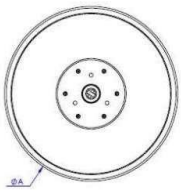
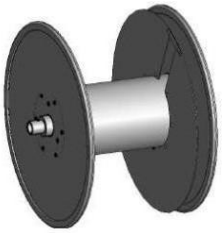


Light weight metallic spool

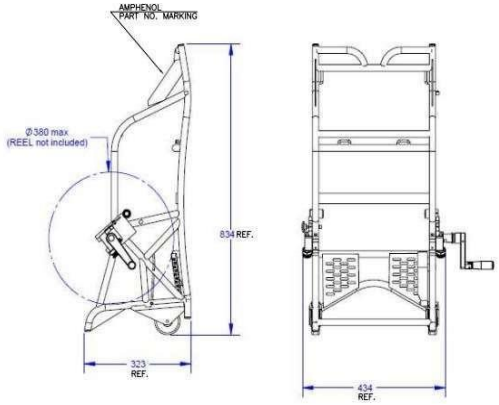






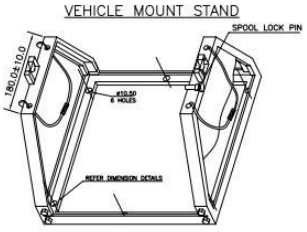
Ref. No.	Dia. A	Dia. B	Flange Thickness	Approx. Weight
320-160-40-1.6	320	160	1.60	**3.27**
3®0-160-40-1.6	3®0	160	1.60	3.90
470-160-40-1.6	470	**160**	1.60	**4.®1**

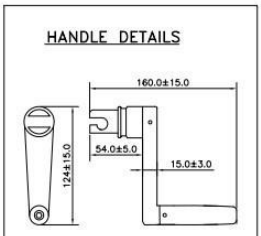
Backpack and front pack Specification



Back material	Aluminum
Weight (Without Reel)	6.1 Kg (Approx.)
Color	Military Green
Finish	Matt Finish

Vehicle Mount Stand Specification





SR. NO.	DRAWING NO.	FINISH	ORDERING INFO.
2	5048611	GRAY	FFSI-5048611
1	504861	MILITARY GREEN	FFSI-504861

Uttar Pradesh - 201301, INDIA
50366
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Material	6lloy Slssl
Weight (Without Reel)	4.® Kg (Approx)

ORDERING INFORMATION: -

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