

FCON series

2-12 fibers rugged field ferrule connector-patchcord

Description:

The OPTOKON FCON field fiber optic connectors are designed for military field cables. The neutral bayonet locking structure enables quick and arbitrary connection of the head and the seat, the head and the head, and the seat and the seat. It has multi-core one-time connection and can be blindly inserted; it has small connection loss and high reliability; it is strong, waterproof, dustproof and resistant to harsh environment. It can be used in various field military optical fiber communication networks. Military computer system, Airborne or shipborne equipment, repairing systems, etc. The field light road is temporarily connected.

Features:

- Ruggedized field design
- Ferrule technology
- Army optical communication network
- Communication vehicle transmission, long-distance space transmission, communication soldier portable transmission tool
- Television teleconference signal transmission for actual combat exercises
- Coal mines, oil wells, natural gas, etc.
- Geological exploration communication
- Broadcast television broadcast
- Emergency fiber optic communication
- Very stable connection
- Up to 12 fiber channels,
- Single mode and/or Multimode



FCON-2 cable plug connector

Application:

- Field communications
- Telecoms
- Surveillance
- Broadcast

Benefits:

- No adaptors necessary, Connected directly without adapter
- Excellent transmission parameters

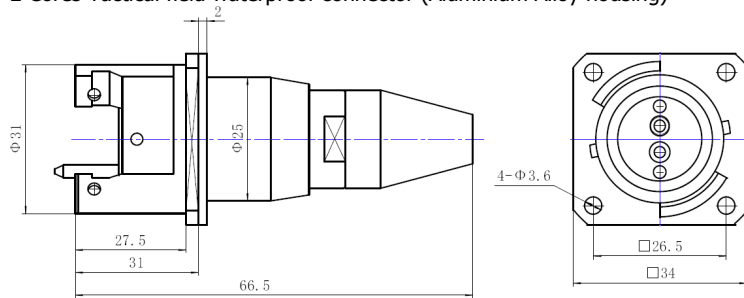
Specifications:

Fiber Core	Cable OD	Weight	Tensile strength N		Crush strength N/100mm		Minimum Bending Radius MM		Temp
	mm	kg/km	Long Term	Short Term	Long Term	Short Term	Dynamic	Static	°C
2	5	24	600	1500	700	1500	20D	10D	-40 to +85
4	5	24	600	1500	700	1500	20D	10D	
6	6	31	600	1500	700	1500	20D	10D	
8	6	40	600	1500	70	1500	20D	10D	
12	5	24	600	1500	70	1500	20D	10D	

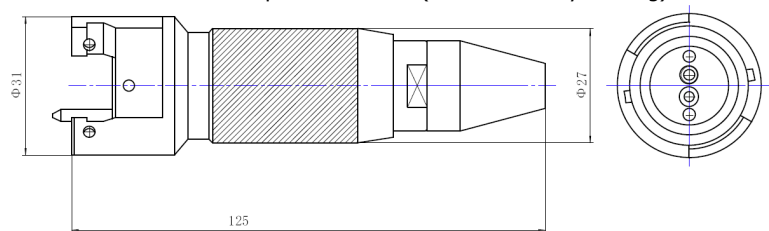
Insertion loss	SM	≤ 0.5 dB (typ. ≤ 0.25 dB)
	MM	≤ 0.5 dB (typ. ≤ 0.25 dB)
Return loss	SM	≥ 50 dB
Mechanical resistance	Plug	≤ 1000 N (trunk cable)
	Socket	≤ 100 N (conversion cable)
Protection level	IP67	
Optical cable	OPK-U-DSTTAC, 2-12 fibers in Tight Buffer 0.9 mm,	
Cable Diameter	4.0 – 6.0 mm	
Cable Jacket	TPU	
Tensile unit	kevlar	
Tensile strength	1100 N	
Operating temperature	-40°C to 85°C	



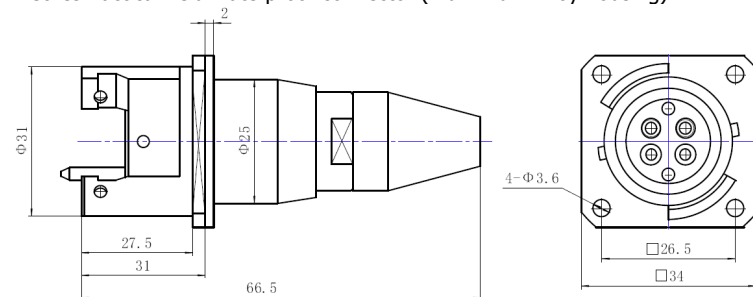
FCON-2BF (bulkhead flange mount)
2 Cores Tactical field waterproof connector (Aluminium Alloy housing)



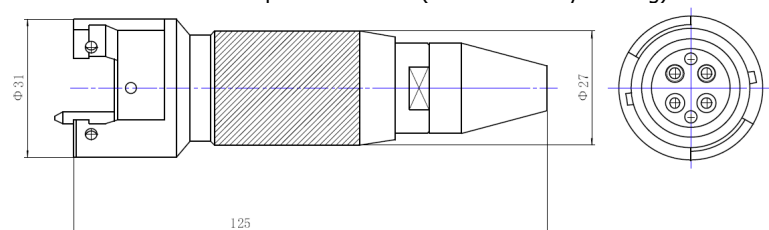
FCON-2 (cable plug)
2 Cores Tactical field waterproof connector (Aluminium Alloy housing)



FCON-4BF (bulkhead flange mount)
4 Cores Tactical field waterproof connector (Aluminium Alloy housing)

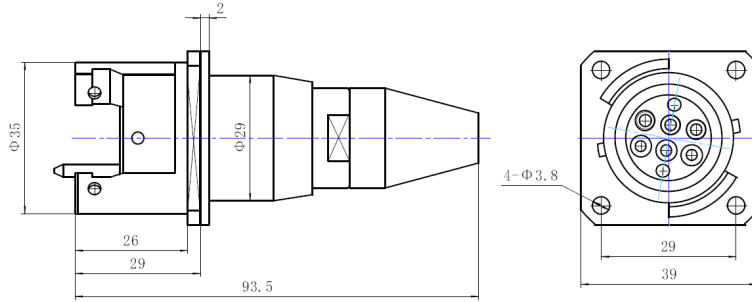


FCON-4 (cable plug)
4 Cores Tactical field waterproof connector (Aluminium Alloy housing)



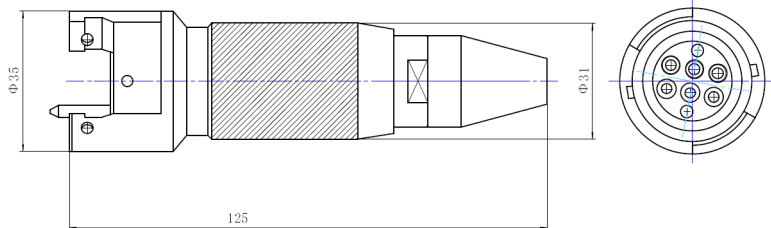
FCON-6BF (bulkhead flange mount)

6 Cores Tactical field waterproof connector (Aluminium Alloy housing)



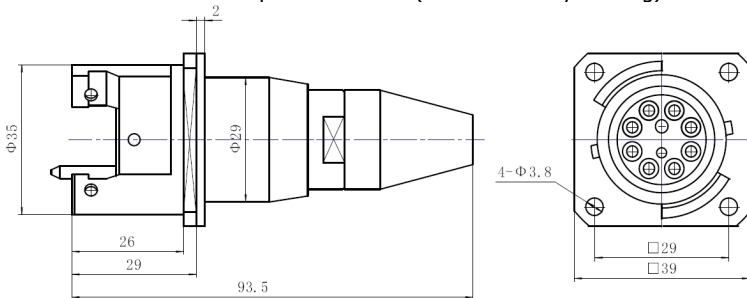
FCON-6 (cable plug)

6 Cores Tactical field waterproof connector (Aluminium Alloy housing)



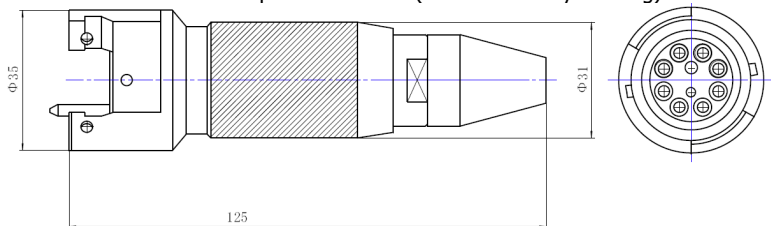
FCON-8BF (bulkhead flange mount)

8 Cores Tactical field waterproof connector (Aluminium Alloy housing)



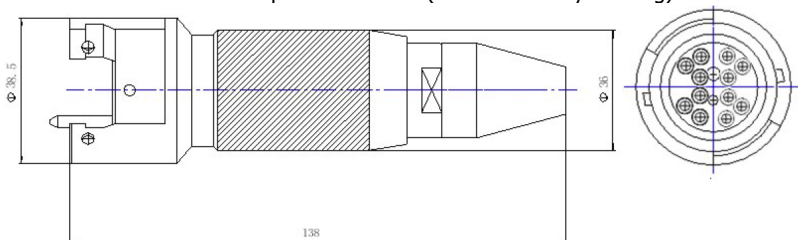
FCON-8 (cable plug)

8 Cores Tactical field waterproof connector (Aluminium Alloy housing)



FCON-12 (cable plug)

12 Cores Tactical field waterproof connector (Aluminium Alloy housing)



FCON-x – (NxAAA)¹⁻ /

CCC FFF -

XX -

(L2) - LLL

Connector type¹	
FCON-x	Plug
FCON-xBF	Bulhead with flange
x = 2/4/6/8/12	Number of fibers

CCC – Cable type	
LD2-12	mobile cable 2-12 fibers
D8	Duplex 2.8 x 5.5 mm
28	Cable Ø 2.8 mm
FF – Fiber type	
OM1	MM 62.5/125 µm
OM2-5	MM 50/125 µm
S7A³	SM 9/125 µm

Cable length	
L, L2	Length (m)
Cable type	
P	Pigtail
JC	jumper crossed ²
JS	jumper straight

- Note: 1) Hybrid (conversion) cable – FCON to standard connectors (defined according to the CON_13-01_EN-ORD_CODE)
 2) FCON trunk cables: JC – standard, JS cable straight – on demand
 Hybrid cable: FCON to single fiber connectors (FC, SC, ST, LC, ..): JS – standard
 3) S7A - G.657A1 standard, other on request

