

OPTOKON HMA¹ patchcord

Description:

The OPTOKON HMA optical modules are designed for connection of the nodes of tactical network by the help of cables with optical fibers. The used "Expanded beam technology" preserves all advantages of signals transmission through the optical lines in field harsh environmental conditions.

Benefiting from expanded beam technology, with a long and proven industry track record, the precision optical alignment system creates immunity from water, mud, dust, oil and other contaminants.

The HMA Hermaphroditic coupling eliminates the need for adaptors and male and female mating halves. Hermaphroditic housings allow for rapid deployment, creating low loss Single mode, Multimode and Hybrid daisy chained links in a variety of planforms ranging from simplex fiber to a copper Hybrid. The OPTOKON HMA is ideally suited for environmental extremities where low maintenance and quick repairability is necessary, the connectors are uniquely field installable and rapidly field repairable.

There are two different types of OPTOKON HMA connection modules:

- a) LD type military tactical cable with OPTOKON HMA plugs at both sides
- b) Hybrid connection module OPTOKON HMA to standard fiber optic connectors (FC, SC, ST, LC, ...)

Features:

- Advanced expanded beam technology .
- Hermaphroditic interconnection •
- 1 to 8 Fiber channels Single mode or Multimode •
- Rugged connector design
- Two versions HMA plug tactical cable HMA bulkhead hybrid cable

Application:

- Military communications
- Broadcast
- Industrial, Petrochemical

HMA-J connector specifications:

Insertion loss (typ.)	0.5 – 0.7 dB (MM) 0.7 – 1.0 dB (SM)
Return loss	>32 dB (SM)
Operating temperature	-55 to +85 °C
Storage temperature	-55 to +85 °C
Water immersion	up to 15 m depth, 24 hrs
Vibration Sinusoidal	10-500 Hz, 0.75 amplitude
	@ 10 g acceleration
Free fall resistance	500 falls onto concrete
	from 1.2 m height
Bump resistance 4000 bu	mps @ 40 g acceleration
Tensile Strength	Tensile of 1500 N
	cable dependent
Cable Variations Compati	ble with tactical cable ¹ :
	Plug < 6 mm o/d
	Bulkhead < 3 mm o/d



Military tactical cable terminated with the HMA plug



Tactical cable with HMA plug connectors coiled on SBD-200 drum.

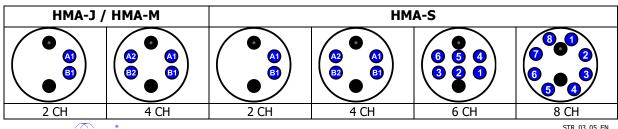
HMA-J/LD4 S7A-JC-200





HMA-J-BN-SCD/D8 OM2-002 HMA-J-4xSL/LD4 OM2-0.5-002 Hybrid cable with HMA connector and SC, ST

Planforms:

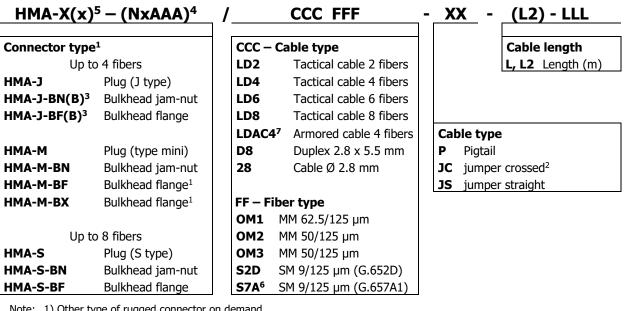


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Ordering Code:



Note: 1) Other type of rugged connector on demand

Detailed information concerning connectors: HMA-J: STR_02-08_EN-Connector_ HMA-J HMA-S: STR_03-08_EN-Connector_ HMA-S HMA-M: STR_01-12_EN-Connector_HMA-M

2) HMA cables: JC - standard, JS cable straight - on demand Hybrid cable: HMA to single fiber connectors (FC, SC, ST, LC, ..): JS - standard

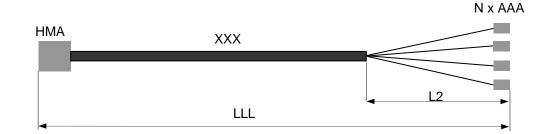
3) -BNB, -BFB boot version, more information refer to STR_02-08_EN-Connector_ HMA-J

4) Hybrid cable – HMA to standard connectors (defined according to the CON_13-01_EN-ORD_CODE)

5) x – if cable configuration is different than planform configuration please use x=2, 4, 6 or 8 according to planform

6) S7A - G.657A1 standard, other on request

7) LDAC – armored flexible cable



Cable connection:

Straight cable Cross cable Connected pins Connected pins	5	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	fibers 8 fi -6 1 -5 2 -4 3 -3 4 -2 5 -1 6 7 7	ibers - 5 - 6 - 7 - 8 - 1 - 2 - 3 - 4

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