HE-XX series
IP67 connectors

Description:

The OPTOKON introducing new effective low cost harsh environment connectors HE-XX series which are designed for Industrial networks, FTTH (Fiber to the Home), FTTA (Fiber to the Antenna), or any other harsh environmental projects. Preconnectorized cables significantly reduce cable installation time, saving money and accelerating FTTX subscriber connections.

HE-ULCD connector

- Bulkhead panel mount or In-line adapters
- Robust design keeps connector intact during installation

Features:

- Simple bayonet locking system
- IP67 protection for harsh environment
- Low Insertion Loss
- Proven design provides a hardened connector for outside plant deployment
  - Single mode/Multimode
  - SC, LC duplex, MTP hardened connector
  - Connector is designed to install on Cable
  - Environmentally-sealed connector housing permits rapid connection to external flush-mounted bulkhead adapter
- Dust cap included

Specifications:

Insertion Loss	HE-LC series: 0.2 dB typical
Return loss	SM: > 50 dB typical for PC, MM: > 30 dB
Ferrule material	full ceramic zirconia
Assembly procedure	glue and polish
Connection	physical contact
Lock mechanism	bayonet locking system
Operating temperature	-40°C to +70°C
Durability	min 500 cycles (<0.2 dB typical change)
Standards	EN 61076-3-106
Environmental protection	IP67

Connector variants:

HE-USC connector

HE-BN-SC duplex adapter

HE-BN-LCD duplex adapter

HE-ULCD connector
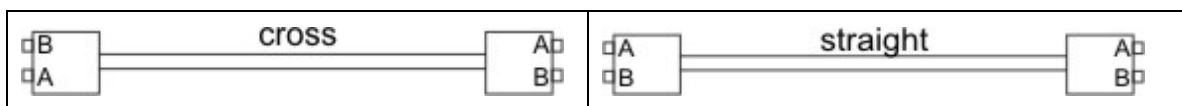

HE SC, Duplex LC & multifiber MTP connectors

HE-NMTP connector

Ordering Code:

HE-AAA - CCC FFF - XX - (L2) - LLL

Connector type[1]

HE Plug (connector)

AAA: Connector type
Duplex LC connector
LCD LC/PC (Multimode)
ULCD LC/UPC (Singlemode)
NLCD LC/APC (Singlemode -angled)
xxx[1] SC, USC, NSC, MTP, NMTP

CCC – Cable type
LD2 Tactical cable 2 fibers
D8 Duplex 2.8 x 5.5 mm

FF – Fiber type
OM1 MM 62.5/125 µm
OM2-4 MM 50/125 µm
OM3 MM 50/125 µm
S2D SM G.652D
S7A1 SM G.657A1

Cable length
L, (L2) Length (m)

Cable type
P Pigtail
JC Jumper crossed[2]
JS Jumper straight

Note: 1) Other type (SC, MTP) on request, see relevant patchcord datasheet
2) JC-crossed is standard, straight on request

Crossed – straight connection:

Adapters:

HE - XX - XXX - XX - XX

XX: type
BN Bulkhead
BI In-line

XXX: adapter
LCD Duplex LC
SC SC adapter
MTPx[4] MTP

XX: sleeve
01 zirconia
02 phosphor bronze
XX not applicated

XX: color[3]
BL blue
GR green
BG beige
BK black

HE-BN-LCD type

HE-BI-LCD type

Dust cap:
HE-CP Dust cap – connector type
HE-CA Dust cap – adapter type

Note: 3) inside adapter
4) MTP adapter key orientation: **A**: aligned, **O**:opposed

Fan-out cable:

HE-AAA   XXX   N x AAA   L2   LLL

Applications:

HE-ULCD-LD2 S7A1-JC-010   cross cable, HE IP67 connectors, LD 2 fibers S7A1, 10 m
HE-ULCD-2xUPC-LD2 S7A1-JC-0.5-003   fanout cable, HE-ULCD to 2x FC/PC connectors, LD 2 fibers S7A1, 3 m
HE-BN-LCD-01-BL   bulkhead with duplex LC adaptor, Zirconia sleeve, SM, blue
HE-BI-LCD-01-BL   in-line with duplex LC adaptor, Zirconia sleeve, SM, blue

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