

HYB-SDD-0-6-02HT+9-02HT+3X1.5mm²-BFH-D#S MUD OG HYBRID & COMPOSITE CABLES P/N FH00404400

TELECOM

Applications

Maritime Environment, Harsh environments, Indoor and outdoor use, Outdoor or direct burial, Outdoor installations



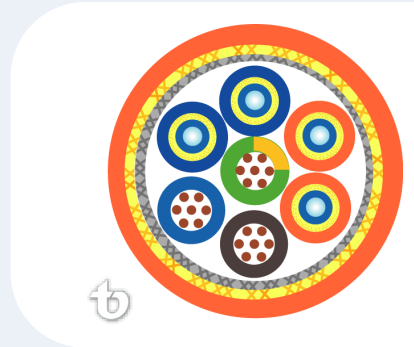
Outer Jacket Material
XL-HFFR



Outer diameter
12.7 mm nom.



Weight
215 kg/km



General Construction

This is a hybrid cable consisting of 3 copper conductors 1.5 mm² and 4 (2 MM 62.5/125/250 um and 2 SM G652D) optical fibers. Each fiber is tight buffered, aramid reinforced and jacketed to form a mini cable. All elements are cabled together. A braid shield of tinned copper wires (min. coverage 80%) is applied over the cable core. An aramid braid is applied over the copper braid and a XLHFFR MUD resistant jacket completes the cable structure.

Mini cables color code:

MM(62.5) - blue, numbered 1-2

SM(9/125) - Orange, numbered 1-2

Copper Conductors color code:

Brown, Blue, Green/Yellow

Design & Materials

Conductor Material	Annealed Bare Copper
Conductor Construction	28x0.25 mm
Insulation Material	HFFR
Insulation O.D. (mm nom)	2.8
Buffer Material	FR-LSZH
Buffer Diameter (µm)	900
Number Of Fibers	4
Binder	Polyester
Overall Braid Shield	Yes
Overall Braid Material	Aramid yarns
Armoring	Braided Tinned Copper
Total Number Of Conductors	3
Rip-Cord	Yes
Outer Diameter (mm nom)	12.7
Outer Jacket Color	Orange

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Marking	Per request
Outer Jacket Material	XL-HFFR
Conductor Cross Section (mm ²)	1.5
Aarmor Coverage (% min)	80

Performance

Min. DC Resistance (Ω/km@20°C)	13.3
Dielectric Strength to Shield (V/minute)	2000
Voltage Rating (V)	450
Max. Installation Tensile Load (N max.)	2700
Max. Residual Tension (MRS) (N max)	1500
Impact Resistance (N*m)	10
Impact Resistance (cycles)	3
Max. Crush Resistance (N/cm)	440
Min. Bend Radius for Installation (mm)	20xD
Min. Bend Radius for Operation (mm)	10xD
Min. Installation Temperature (°C)	-10
Max. Installation Temperature (°C)	+50
Min. Operating Temperature (°C)	-30
Max. Operating Temperature (°C)	+80
Min. Storage Temperature (°C)	-40
Max. Storage Temperature (°C)	+70
UV Resistance	Yes
Mud Resistance	Yes
Rodent Resistance	Yes

Standards

Flammability Rating
IEC 60332-1
IEC 60332-3
IEC 60754-1/2
IEC 61034-1/2

Applicable Standards
DNV certified
ABS certified
LLOYDS certified
RMRS certified
IEC 60794-1-21/22
ISO/IEC 11801-1
ASTM G154
RoHS 3 2015/863/EU
NEK TS 606



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