

QFCB Mica (OFCI MUD)

4 – 96 fibers

Loose tube

Armoured

MUD and UV-resistant

DNV

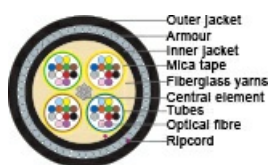
Application

Fiber optical cable for the oil- and offshore industry, commercial marine vessels and other harsh environments. The cable has excellent communication properties, the fibers are protected in jelly filled loose tubes stranded around a central strength member to ensure optimum performance and long life. Each fiber and loose tube are colour coded for easy identification during splicing and termination. The cable is rodent protected and and outer jacket of MUD resistant material.



Construction Fiber

Fibertype	MM 62.5 and 50, SM 9
Colorcode fiber	TIA 598 1 - Blue 5 - Grey 9 - Yellow 2 - Orange 6 - White 10 - Violet 3 - Green 7 - Red 11 - Pink 4 - Brown 8 - Black 12 - Turquoise
Fiber tube	Loose tube PBTP with jelly
Colorcode fiber tube	TIA 598 1 - Blue 3 - Green 2 - Orange 4 - Brown
Fire resistant barrier	Mica tape on each loose tube
Strength member	Reinforced fibreglass yarns (WB) (water blocking)
Inner jacket	Black LSZH compound
Armour	Galvanized steel wire braid
Outer Jacket	Black LSZH compound , MUD- and oil resistant



Specifications fiber

Temperature range	-40 – +70 [°C]
Temperaturerange at inst.	-10 – +60 [°C]
Temperaturrange storage	-40 – +70 [C°]
Tensile strength	500 [N] @ operation 1500 [N] @ installation (acc. to IEC 60794-1-21 E1) (acc. to IEC 60794-1-21 E1)
Crush resistance	3000 [N/10cm] (acc. to IEC 60794-1-21 E3)
Impact resistance	5 [J] (acc. to IEC 60794-1-21 E4)
Bending radius	20 [x outer diam] (IEC 60794-1-21 E11)

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 & IEC 60754-2
Design and testing standards	IEC 60794-1-21 & IEC 60794-1-22
Flame resistance	IEC 60332-3
Flame retardant	IEC 60332-1
Fire resistant	IEC 60331-25 EN 50200 – 90 min. @ 750°C
Ozone resistant	IEC 60811-403
Smoke emission	IEC 61034-1 & IEC 61034-2
Test and material	Emergency Circuits acc. to EN 50200 - PH120
MUD resistant	NEK TS 606
UV-resistant	ASTM G 154
Certification	DNV

Dimension

No. of fibres	Fibre per tube	Total / Active tubes	Outer diam. [mm]	Weight
4	4	4 / 1	15.0 ± 0.5	290
8	8	4 / 1	15.0 ± 0.5	291
12	12	4 / 1	15.0 ± 0.5	291
24	12	4 / 2	15.0 ± 0.5	305
36	12	4 / 3	15.0 ± 0.5	318
48	12	4 / 4	16.5 ± 0.5	323
72	12	6 / 6	16.7 ± 0.5	331
96	12	8 / 8	17.1 ± 0.5	335

Updated

Date	Rev.	Description
12.08.2024	1	Added 4 - 96 fibers