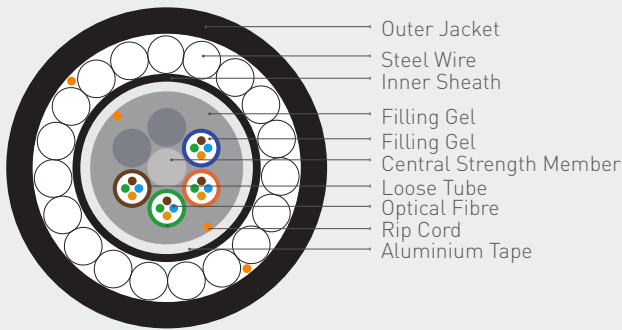


OFFSHORE MARINE FIBRE OPTIC CABLE

The Norden Offshore Marine Fibre Optic Cable is designed for offshore marine applications such as shipboard systems, offshore platforms, and similar marine installations. It features a central strength member to ensure structural stability during installation and operation. The cable incorporates aluminium tape along with gel-filled loose tubes to prevent moisture ingress. Its robust construction includes an LSZH inner jacket and a FRPE/LSZH outer jacket, combined with steel wire armour and aluminium tape for enhanced mechanical protection and pressure resistance. This design provides reliable performance in harsh marine environments. It is not suitable for underwater or subsea applications.



COMPLIANCE

ITU-T G652.B OS1
 ITU-T G652.D/G655/G657.A1/G657.A2 OS2
 ITU-T G651.1 OM1 OM2 OM3 OM4
 IEC60793-2-10 type A1a.1/A1b OM1/OM2
 IEC60793-2-10 type A1a.2 OM3
 IEC60793-2-10 type A1a.3 OM4
 IEC60793-2-50, IEC60794-3, IEC60794-3-11
 ISO/IEC 11801, ISO/IEC 24702
 ANSI/TIA/EIA-568.3-D
 RoHS Compliant Directive 2002/95/EC
 LSZH: IEC 60332-3-22 Category A,
 IEC 60754, IEC 61034, IEC 60092-360
 Hazardous area suitability [Zone 1 / Zone 2]

MECHANICAL, ENVIRONMENTAL & OPTICAL CHARACTERISTICS

Characteristics		Short Term	Long Term
Max. Tensile Load		25700 N	16200 N
Max. Crush Load		10000N/100mm	4000N/100mm
Tension	12F-72F	25.7KN	16.2KN
	96F	34.7KN	20.5KN
	144F	47.2KN	25.7KN
Reinforced Materials		Phosphatized Steel Wire	
Steel Wire Dia		1.0mm (12F-72F) / 1.2mm (96F) / 1.5mm(144F)	
Inner/Outer Sheath		Inner :LSZH , Outer :Flame Retardant PE/LSZH	
Sheath Thickness		1.5mm (Inner); 2.0mm (Outer)	
Operating Temperature		-40°C to +70°C	
Storage Temperature		-40°C to +70°C	
Installation Temperature		-20°C to +60°C	
Max Attenuation	Single Mode	≤0.36dB/KM (1310nm) , ≤0.22dB/KM (1550nm)	
	Multi Mode	3.5dB/KM (850nm), 1.5dB/KM (1300nm)	



OFFSHORE MARINE FIBRE OPTIC CABLE

ORDERING INFORMATION

Part Number	Fibre Count	Outer Diameter (mm)	OD of Loose Tube (mm)	No. of Filler	Net Weight(Kg)	Bend Radius	
						Short (mm)	Long (mm)
4051-Q1012XXXCL	12	15.5	2.0	4	422.17	30D	15D
4051-Q1024XXXCL	24	15.5	2.0	3	421.48	30D	15D
4051-Q1048XXXCL	48	15.5	2.0	1	420.10	30D	15D
4051-Q1072XXXCL	72	16.0	2.0	0	454.24	30D	15D
4051-Q1096XXXCL	96	17.6	2.0	0	571.66	30D	15D
4051-Q1144XXXCL	144	20.2	2.0	0	786.08	30D	15D

ORDERING GUIDE

Cable Type	Jacket	Fibre/Tube	Fibre Count	Fibre Type (FXX)	Jacket Colour (CL)
4051	Q: Inner LSZH/Outer FRPE LL: Inner LSZH/Outer LSZH (IEC 60332-3-22 Category A)	1=12 F/T 4=04 F/T	XXX	OM1=62.5/125 OM1 OM2=50/125 OM2 OM3=50/125 OM3 OM4=50/125 OM4 OM5=50/125 OM5 OS1=9/125 [G652.B] OS1 OS2=9/125 [G652.D] OS2 500=9/125 [G655] OS2 7A1=9/125 [G657.A1] OS2 7A1=9/125 [G657.A1] OS2	As noted

CL: BK[Black], OR[Orange], YL[Yellow], GN[Green], AQ[Aqua], RD[Red], BL[Blue]