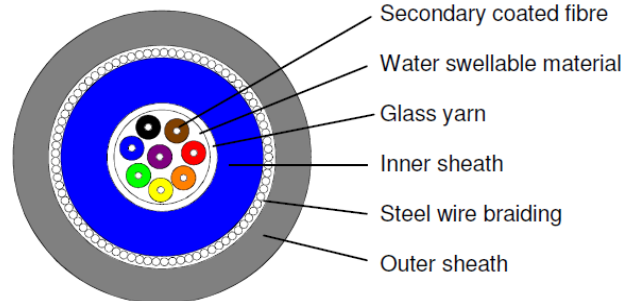


Bergen Cabling Maritime LAN AICI Fiber



Optical cable for industrial environments. The cable is suitable for both indoor and outdoor installation. Continuous submergence in water is not recommended. The outer sheath is made from black UV-stabilized and weather resistant material which is SHF1 classified, and may be exposed for shorter periods to fluids such as diesel and mineral oils. The resistance to these fluids is according to IEC60811-2-1. The cable is reinforced with a steel wire braiding between the two sheaths. Strength elements of glass yarn around the cable core allow easy installation of long lengths. The 0.9 mm tight buffer is easy to strip allowing fast and reliable splicing and connector mounting. Each fibre is colour coded for easy identification. The outer sheath is marked to show fibre type and cable type.



Weight and dimensions

Number of fibres	Secondary coating	Outer diameter	Weight	Tensile strength*
	[mm]	[mm]	[kg/km]	[Inst./oper.] [N]
4	0.9	8.2	90	700/250
8	0.9	9.4	125	800/350
12	0.9	10.3	145	1200/500

Certification

DNV GL approved, certificate number TAE000000C

Cable properties

*Tensile strength (IEC 60794-1-2E1)		Temperature window	
Max tensile load during installation	See above	Operation	-40°C to +70°C
Max tensile load during operation	See above	Installation	-10°C to +70°C
Crush (IEC 60794-1-2E3)	2000 N/10cm	Storage	-40°C to +70°C
Impact (IEC 60794-1-2E4)	1 impacts, 25J	Water tightness* (IEC 60794-1-2F5B)	< 3 m/24 hours
Torsion (IEC 60794-1-2E7)	± 1 turn/1m	Fire and smoke classifications	
Cable bending		IEC 60332-1	
Minimum bending diameter	15x outer diameter	IEC 60332-3-22 (Cat. A)	
Cable bend (IEC 60794-1-2E11)	<0.5 dB/ ± 5 turn	IEC 60332-3-24 (Cat. C)	
Flexibility (IEC 60794-1-2E8)	1000 cycles	IEC 61034	
		IEC 60754-1	
		IEC 60754-2	
		Chemical resistance	
		Mineral oils IRM 902 (IEC60811-2-1)	- 7 days/23°C - 4 hours/70°C
		Diesel - IRM 903 (IEC60811-2-1)	- 7 days/23°C - 4 hours/70°C

*) – Steel wire braiding is not watertight.

Colour code

Fibre no	Colour	Fibre no	Colour	Fibre no	Colour
1	White	5	Blue	9	Violet
2	RED	6	Grey	10	Turquoise
3	Yellow	7	Brown	11	Orange
4	Green	8	Black	12	Pink

Ordering information

BC-41-001	Bergen Cabling Maritime LAN AICI fiber G4 – 9/125 OS2 singlemode
BC-41-002	Bergen Cabling Maritime LAN AICI fiber G8 – 9/125 OS2 singlemode
BC-41-003	Bergen Cabling Maritime LAN AICI fiber G12– 9/125 OS2 singlemode
BC-41-011	Bergen Cabling Maritime LAN AICI fiber G4 – 50/125 OM2 multimode
BC-41-012	Bergen Cabling Maritime LAN AICI fiber G8– 50/125 OM2 multimode
BC-41-013	Bergen Cabling Maritime LAN AICI fiber G12 – 50/125 OM2 multimode

OM3, OM4 and other fiber numbers on request.