

**MG-LDC-9-02X02-M-ZHBH-X#S SHF1 BK**  
**FIBEROPTICS**  
**P/N F90040209B**

INDUSTRY

**Applications**

Maritime Environments, Offshore Application, Direct Burial Campus Backbone, Rugged environments



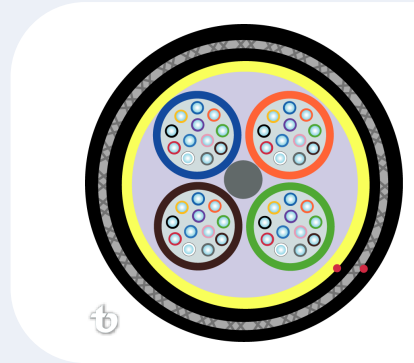
Outer Jacket Material  
 LSZH



Outer diameter  
 14.6 mm nom.



Weight  
 310 kg/km



**General Construction**

The cable contains 4 MM SM G652D color-coded optical fibers contained in 2 color-coded loose tubes, each tube contains 2 fibers. These tubes are filled with a thixotropic gel to prevent the ingress of water and a mica tape is added over each tube for heat protection. These tubes are SZ stranded with 2 fillers around a metallic central strength member. Fiber-glass strength yarns reinforce the cable core beneath an inner jacket. A layer of galvanized steel wires braid is stranded around the inner jacket. An outer jacket completes the cable structure.

Fibers colors according to EIA/TIA 598.

Tubes color code: 1 - Red, 2 - Green

**Design & Materials**

Buffer Material	PBT
Buffer Tube Diameter (mm nom)	2.5
Number Of Fibers	4
Overall Braid Material	Steel wire
Braid Coverage (% nom)	95
Inner Jacket Material	LSZH
Rip-Cord	Yes
Outer Diameter (mm nom)	14.6
Outer Jacket Color	Black
Marking	Per request
Outer Jacket Material	LSZH

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**Performance**

Max. Installation Tensile Load (N max.)	3000
Max. Residual Tension (MRS) (N max)	1800
Impact Resistance (N*m)	10
Impact Resistance (cycles)	3
Max. Crush Resistance (N/cm)	400
Min. Bend Radius for Installation (mm)	15xD
Min. Bend Radius for Operation (mm)	15xD
Repeated Bending (cycles)	25
Torsion (L=125 x d) (cycles)	10
Min. Installation Temperature (°C)	-20
Max. Installation Temperature (°C)	+50
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+90
Min. Storage Temperature (°C)	-40
Max. Storage Temperature (°C)	+90
Drip Test (°C)	80
UV Resistance	Yes

**Standards**

Flammability Rating  
IEC 60331-25  
IEC 60332-1  
IEC 60332-3-22

Applicable Standards  
IEC 60092-350  
IEC 60092-360  
IEC 60794  
IEC 60794-1-21/22  
ISO/IEC 11801-1  
TIA/EIA-568



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