

product type designation

product description

SIENOPYR marine duplex fiber-optic cable

Glass fiber-optic cable SIENOPYR marine cable, sold by the meter, unassembled

FOC SIENOPYR marine cable, fiber-optic cable for laying on ships and OFFSHORE units, Sold by the meter delivery unit max. 1000 m minimum order quantity 20 m.



suitability for use

version of the assembled FO cable

cable designation

Fixed routing on ships and on offshore platforms in all enclosed spaces and on open deck, marine approval available

For assembly with four multimode FO connectors (e.g. BFOC, SC, ...)

MI-VHH 2G 62.5/125 3.1B200 + 0.8F600 + 2x1Cu 300V

optical data

attenuation factor per length

- at 650 nm / maximum
- at 850 nm / maximum
- at 1300 nm / maximum

160 dB/km
3.1 dB/km
0.8 dB/km

bandwidth length product

- at 850 nm
- at 1300 nm

200 GHz·m
600 GHz·m

mechanical data

number of fibers / per FOC core

1

number of FO cores / per FOC cable

2

version of the FO conductor fiber

Multimode graded-index fiber 62.5/125 µm, OM 1

design of the FOC core

Solid core

design of the fiber-optic cable

Segmentable outer conductor

outer diameter

- of the optical fibers
- of the optical fiber sheath
- of the FOC core sheath

62.5 µm
125 µm
2.9 mm

outer diameter / of the cable

13.3 mm

symmetrical deviation / of the outer diameter of the line

0.5 mm

material

- of the fiber-optic cable core
- of the FOC core sheath
- of the fiber-optic cable sheath
- of the strain relief

Mineral glass
Polyolefine
SHF1 mixture
Aramid fibers

color

- of cable sheath

Black

bending radius

- with single bend / minimum permissible
- with multiple bends / minimum permissible

133 mm
266 mm

tensile load

- during operation / maximum

250 N

weight per length

220 kg/km

ambient conditions

ambient temperature	
• during operation	-40 ... +80 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	-10 ... +50 °C
ambient condition / for operation	At ambient temperatures below -10 degrees Celsius, the cable must not be subjected to any movements other than the normal vibration levels encountered on board ship
fire behavior	Flame-resistant acc. to IEC 60332-3 (Cat. A)
chemical resistance	
• to water	conditional resistance
radiological resistance / to UV radiation	resistant

product features, product functions, product components / general

product feature	
• halogen-free	Yes
• silicon-free	Yes
product component / rodent protection	No
wire length	
• for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum	4000 m
• for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum	350 m
• for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum	550 m
• for glass FOC / with PROFIBUS / maximum	3000 m

standards, specifications, approvals

certificate of suitability	
• RoHS conformity	Yes
Marine classification association	
• French marine classification society (BV)	Yes
• Det Norske Veritas (DNV)	Yes
• Germanische Lloyd (GL)	Yes
• Lloyds Register of Shipping (LRS)	Yes
reference code	
• according to IEC 81346-2	WH
• according to IEC 81346-2:2019	WHA

further information / internet-Links

Internet-Link	
• to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Selection guide for cables and connectors	https://sie.ag/2QdlxcP
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAX-Download-Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

last modified:

5/10/2022 