

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

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

version of the assembled FO cable

sold by the meter

cable designation

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

optical data

attenuation factor per length

• at 650 nm / maximum	160 dB/km
• at 850 nm / maximum	3.1 dB/km
• at 1300 nm / maximum	0.8 dB/km

bandwidth length product

• at 850 nm	200 GHz·m
• at 1300 nm	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	62.5 µm
• of the optical fiber sheath	125 µm
• of the FOC core sheath	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	Mineral glass
• of the FOC core sheath	Polyolefine
• of the fiber-optic cable sheath	SHF1 mixture
• of the strain relief	Aramid fibers

color

• of cable sheath	Black
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bending radius

• with single bend / minimum permissible	133 mm
• with multiple bends / minimum permissible	266 mm

tensile load

• during operation / maximum	250 N
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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 website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAX-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information / header	
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General Product Approval



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Marine / Shipping	Environment	Industrial Commu- nication
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