

Product type designation

Product description

SIENOPYR marine duplex fiber-optic cable

Glass fiber-optic cable SIENOPYR marine cable, sold by the meter, unassembled
SIMATIC NET, SIENOPYR FO CABLE SHIPBOARD CABLE, FO CABLE FOR INSTALLATION ON SHIPS AND OFFSHORE UNITS, SOLD BY METER MAX. CONSIGNMENT: 1000 M MIN. 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	For assembly with four BFOC connectors
Cable designation	MI-VHH 2G 62.5/125 3.1B200 + 0.8F600 + 2x1Cu 300V

Optical data

Damping ratio per length	
<ul style="list-style-type: none"> • at 650 nm / maximum • at 850 nm / maximum • at 1300 nm / maximum 	<p>160 dB/km</p> <p>3.1 dB/km</p> <p>0.8 dB/km</p>
Bandwidth length product	
<ul style="list-style-type: none"> • at 850 nm • at 1300 nm 	<p>200 GHz·m</p> <p>600 GHz·m</p>

Mechanical data

Number of fibers / per FOC core	1
Number of FO cores / per FOC cable	2
Version of the FO conductor fiber	Multi-mode gradient fiber 62.5/125 µm, OM 2
Design of the FOC core	Solid core
Design of the fiber-optic cable	Segmentable outer conductor
Outer diameter	
<ul style="list-style-type: none"> • of the optical fibers • of the optical fiber sheath • of the FOC core sheath 	<p>62.5 µm</p> <p>125 µm</p> <p>2.9 mm</p>

Outer diameter / of the cable	13.3 mm
Symmetrical deviation / of the outer diameter of the line	0.5 mm
Material <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • of cable sheath 	Black
Bending radius <ul style="list-style-type: none"> • 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

Permitted ambient conditions

Ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation 	-40 ... +80 °C -40 ... +80 °C -40 ... +80 °C -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
Burning behavior	Flame-resistant acc. to IEC 60332-3 (Cat. A)
Chemical resistance <ul style="list-style-type: none"> • to water 	Conditional resistance
Radiological resistance / to UV radiation	resistant

Product properties, functions, components / general

Product property <ul style="list-style-type: none"> • halogen-free • silicon-free 	Yes Yes
Product component / Rodent protection	No
Cable length <ul style="list-style-type: none"> • for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum • for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum • for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum • for glass FOC / with PROFIBUS / maximum 	4000 m 350 m 550 m 3000 m

Standards, specifications, approvals

Certificate of suitability	
<ul style="list-style-type: none"> • RoHS conformity 	Yes
Marine classification association	
<ul style="list-style-type: none"> • Bureau Veritas (BV) 	Yes
<ul style="list-style-type: none"> • Det Norske Veritas (DNV) 	Yes
<ul style="list-style-type: none"> • Germanische Lloyd (GL) 	Yes
<ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) 	Yes

Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/automation/net/catalog
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx Download Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com

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