SIEMENS

Data sheet	6XV1830-0NH10

product type designation	**SIENOPYR marine duplex fiber-optic cable**
product description	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
bending radius	
● with single bend / minimum permissible	133 mm
● with multiple bends / minimum permissible	266 mm
tensile load	
● during operation / maximum	250 N
weight per length	220 kg/km
ambient conditions	

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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/2QdIxcP
● 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

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