## SIEMENS

## Data sheet

## 6XV1840-4AH10

product description	Halogen-free bus cable acc. to IEC 60754-1/2 (4-core), sold by the meter, unassembled				
Industrial Ethernet FC TP Marine Cable, TP installation cable for connection to F outlet RJ45, shipbuilding certified, 4-core, shielded, Cat5e, sold by the meter, delivery unit max. 1000 m, minimum order quantity 20 m.					
suitability for use	For marine and offshore use				
cable designation	L-9YH (ST) CH 2x2x0,34/1,5-100 GN VZN FRNC SF/UTP				
wire length	sold by the meter				
electrical data					
attenuation factor per length					
• at 10 MHz / maximum	0.06 dB/m				
• at 100 MHz / maximum	0.22 dB/m				
impedance					
at 1 MHz 100 MHz	100 Ω				
relative symmetrical tolerance					
of the characteristic impedance at 1 MHz 100 MHz	5 %				
near-end crosstalk per length					
• at 1 MHz 100 MHz	0.5 dB/m				
transfer impedance per length / at 10 MHz	10 mΩ/m				
loop resistance per length / maximum	120 mΩ/m				
operating voltage					
RMS value	80 V				
NVP value in percent	69 %				
mechanical data					
number of electrical cores	4				
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires				
type of electrical connection / FastConnect	Yes				
core diameter					
<ul> <li>of AWG22 insulated conductor</li> </ul>	0.75 mm				
outer diameter					
of inner conductor	0.75 mm				
of the wire insulation	1.5 mm				
<ul> <li>of the inner sheath of the cable</li> </ul>	3.9 mm				
of cable sheath	6.5 mm				
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm				
material					
• of the wire insulation	PP				
• of the inner sheath of the cable	FRNC				
of cable sheath	FRNC				
color					
<ul> <li>of the insulation of data wires</li> </ul>	white/yellow/blue/orange				
of cable sheath	green				
bending radius					

<ul> <li>with single bend / minimum permissible</li> </ul>	39 mm			
with single bend / minimum permissible     with multiple bends / minimum permissible	97.5 mm			
tensile load / maximum	97.5 mm 150 N			
weight per length	68 kg/km			
ambient conditions				
ambient temperature				
during operation	-25 +70 °C			
during storage	-40 +85 °C			
during transport	-40 +85 °C			
during installation	0 50 °C			
• note	Electrical properties measured at 20 °C, tests according to DIN VDE 0472			
ambient condition / for operation	Temperature range for permanent installation -40 °C to 85 °C			
fire behavior	flame resistant according to IEC 60332-3-22 (Category A/F), smoke density			
	according to IEC 61034-1/2			
class of burning behaviour / according to EN 13501-6	Eca			
chemical resistance				
• to mineral oil	conditional resistance, IEC 60811-2-1 (4 hours / 70 °C)			
• to grease	Conditional resistance			
• to water	conditional resistance			
radiological resistance / to UV radiation	resistant			
product features, product functions, product components / gene	eral			
product feature				
halogen-free	Yes			
silicon-free	Yes			
wire length / for Industrial Ethernet				
with 100BaseTX	85 m			
standards, specifications, approvals				
UL/ETL listing / 300 V Rating	Yes; cULus / CMG / PLTC / Sun Res			
UL/ETL style / 600 V Rating	No			
certificate of suitability	N .			
• EAC approval	Yes			
• CE marking	Yes			
RoHS conformity	Yes			
standard for structured cabling	Cat5e			
Marine classification association				
American Bureau of Shipping Europe Ltd. (ABS)	Yes			
• French marine classification society (BV)	Yes			
Det Norske Veritas (DNV)	Yes			
Germanische Lloyd (GL)	No			
Lloyds Register of Shipping (LRS)	Yes			
Nippon Kaiji Kyokai (NK)	No			
Polski Rejestr Statkow (PRS)	Yes			
Royal Institution of Naval Architects (RINA)	Yes			
reference code				
according to IEC 81346-2	WG			
according to IEC 81346-2:2019	WGB			
further information / internet links				
internet link	https://gupport.industry.gipmore.gom/ac/unu/ac/uigu/400766959			
to website: Selection guide for cables and connectors     to web page: calection aid TIA Selection Tech	https://support.industry.siemens.com/cs/ww/en/view/109766358			
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud			
to web page: SiePortal	https://sieportal.siemens.com/			
to website: Image database     to website: CAx Devreload Manager	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				
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected			

to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates	S				
General Product App	proval				Test Certificates
Manufacturer Declara- tion	CE EG-Konf.	Declaration of Con- formity	UK CA		Special Test Certific- ate
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyd's Register uis	PRS	RINA
Environment		Industrial Communica	ation		
<u>Confirmation</u>	Environmental Con- firmations	PROFINET			

last modified:

8/8/2024 🖸