SIEMENS

Data sheet

6XV1840-2AU10

product description	Standard hus cable (4 wires) proferred length not accombled			
product description	Standard bus cable (4 wires), preferred length, not assembled Industrial Ethernet FC TP standard cable GP, TP installation cable for connection			
	to IE FC RJ45 2x2, for universal use, shielded Cat5e, 1000 m.			
suitability for use	Standard cable with rigid cores for fast installation			
cable designation	2YY (ST) CY 2x2x0,64/1,5-100 GN SF/UTP			
wire length	1000 m			
electrical data				
attenuation factor per length				
• at 10 MHz / maximum	0.052 dB/m			
• at 100 MHz / maximum	0.195 dB/m			
impedance				
• at 1 MHz 100 MHz	100 Ω			
relative symmetrical tolerance				
• of the characteristic impedance at 1 MHz 100 MHz	15 %			
transfer impedance per length / at 10 MHz	10 mΩ/m			
loop resistance per length / maximum	115 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				
 of AWG22 insulated conductor 	0.64 mm			
outer diameter				
of inner conductor	0.64 mm			
 of the wire insulation 	1.5 mm			
of the inner sheath of the cable	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	polyethylene (PE)			
of the inner sheath of the cable	PVC			
of cable sheath	PVC			
color				
 of the insulation of data wires 	white/yellow/blue/orange			
of cable sheath	green			
bending radius				
• with single bend / minimum permissible	19.5 mm			
 with multiple bends / minimum permissible 	49 mm			

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tensile load / maximum	150 N			
weight per length	61 kg/km			
ambient conditions				
ambient temperature				
during operation	-40 +75 °C			
during storage	-40 +75 °C			
 during transport 	-40 +75 °C			
 during installation 	-40 +60 °C			
• note	Electrical properties measured at 20 °C, tests according to DIN VDE 0472			
fire behavior	flame resistant according to IEC 60332-3-24 (Category C) and UL 1685 (CSA FT 4)			
class of burning behaviour / according to EN 13501-6	Eca			
chemical resistance				
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)			
• to grease	Conditional resistance			
• to water	conditional resistance			
radiological resistance / to UV radiation	resistant			
product features, product functions, product components / gen	eral			
product feature				
halogen-free	No			
silicon-free	Yes			
wire length / for Industrial Ethernet				
• with 100BaseTX	100 m			
standards, specifications, approvals				
UL/ETL listing / 300 V Rating	Yes; c(ETL)us / CMG / (ETL)us PLTC/ ITC / Sun Res			
	Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2			
UL/ETL style / 600 V Rating	Tes, Crous AVIM 21094 AVIM FAID OU C 0000 FT2			
certificate of suitability	Vee			
• EAC approval	Yes			
CE marking	Yes			
standard for structured cabling	Cat5e			
Marine classification association				
American Bureau of Shipping Europe Ltd. (ABS)	No			
• French marine classification society (BV)	No			
Det Norske Veritas (DNV)	No			
Germanische Lloyd (GL)	No			
 Lloyds Register of Shipping (LRS) 	No			
 Nippon Kaiji Kyokai (NK) 	No			
Polski Rejestr Statkow (PRS)	No			
reference code				
 according to IEC 81346-2 	WG			
 according to IEC 81346-2:2019 	WGB			
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 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				
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)

General Product Appr	oval			Test Certificates
<u>Manufacturer Declara-</u> tion	CE EG-Konf.	Declaration of Con- formity	UK CA	Special Test Certific- ate
Environment	Industrial Commun	ication		
Confirmation	PROFINET			

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