## SIEMENS

## Data sheet

## 6XV1840-2AN20

product description	Standard bus cable (4 wires), preferred length, not assembled			
	IE FC TP Standard Cable GP 2x2 (PROFINET Type A), CAT5E, bus cable 4-wire shielded, special configuration for quick assembly to IE FC RJ45 PLUG 2x2, 20 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	20 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 %			
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	115 mΩ/m			
operating voltage				
RMS value	80 V			
NVP value in percent	69 %			
nechanical 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>	0.64 mm			
outer diameter				
of inner conductor	0.64 mm			
<ul> <li>of the wire insulation</li> </ul>	1.5 mm			
<ul> <li>of the inner sheath of the cable</li> </ul>	3.9 mm			
<ul> <li>of cable sheath</li> </ul>	6.5 mm			
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm			
material				
• of the wire insulation	polyethylene (PE)			
<ul> <li>of the inner sheath of the cable</li> </ul>	PVC			
	PVC			
<ul> <li>of cable sheath</li> </ul>				
• of cable sheath color				
	white/yellow/blue/orange			

<ul> <li>with single bend / minimum permissible</li> </ul>	19.5 mm			
with multiple bends / minimum permissible	49 mm			
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 / gene	eral			
product feature				
<ul> <li>halogen-free</li> </ul>	No			
silicon-free	Yes			
wire length / for Industrial Ethernet				
<ul> <li>with 100BaseTX</li> </ul>	100 m			
standards, specifications, approvals				
UL/ETL listing / 300 V Rating	Yes; c(ETL)us / CMG / (ETL)us PLTC/ ITC / Sun Res			
UL/ETL style / 600 V Rating	Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2			
certificate of suitability				
EAC approval	Yes			
• CE marking	Yes			
RoHS conformity	Yes			
standard for structured cabling	Cat5e			
Marine classification association				
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No			
French marine classification society (BV)	No			
Det Norske Veritas (DNV)	No			
Germanische Lloyd (GL)	No			
Lloyds Register of Shipping (LRS)	No			
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No			
Polski Rejestr Statkow (PRS)	No			
reference code				
according to IEC 81346-2	WG			
• according to IEC 81346-2:2019	WGB			
standards, specifications, approvals / Environmental Product D				
Environmental Product Declaration	Yes			
global warming potential [CO2 eq]				
• total	0.9 kg			
during manufacturing	0.81 kg			
during inanalacturing     outring operation	0.02 kg			
after end of life	0.07 kg			
further information / internet links				
internet link				
to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358			
<ul> <li>to website. Selection guide for cables and connectors</li> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstcloud			
<ul> <li>to web page: selection and TIA Selection roof</li> <li>to web page: SiePortal</li> </ul>	https://sieportal.siemens.com/			
to web page. Steronal     to website: Image database	https://www.automation.siemens.com/bilddb			
-				
to website: CAx-Download-Manager     to website: Industry Online Support	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			

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	Manufacturer Declara- tion	Manufacturer Declara- tion UK	Manufacturer Declara- tion UK Declaration of Con- formity

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