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Data sheet

6XV1840-2AN50

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, 50 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	50 m			
lectrical 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			
time of electrical compaction / EactOperators	copper wires			
type of electrical connection / FastConnect	Yes			
core diameter	0.64 mm			
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			

• with single hand / minimum normicsible	19.5 mm
with single bend / minimum permissible	
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	
product reatures, product functions, product components / gene	
•	No
halogen-free silicon-free	Yes
silicon-free wire length / for Industrial Ethernet	
wire length / for Industrial Ethernet • with 100BaseTX	100 m
	100 111
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	
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: Image database 	https://www.automation.siemens.com/bilddb
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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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					
General Product Approva	I		Test Certificates	other	Environment
Manufacturer Declara- tion	CE EG-Konf.	UK CA	Manufacturer Declara- tion	Manufacturer Declara- tion	EPD
Industrial Communication	,				

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