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Data sheet

6XV1840-2AH10

product description	Standard hus cable (4 core) cald by the mater unaccombled
product description	Standard bus cable (4-core), sold by the meter, unassembled
	Industrial Ethernet FC TP Standard cable, GP 2x2 (PROFINET Type A), TP installation cable for connection to IE FC RJ45 2x2, for universal use, 4-core, shielded CAT 5E, sold by the meter, delivery unit max. 4000 m minimum order quantity 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	sold by the meter
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 %
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 of the input shouth of the cable 	polyethylene (PE)
of the inner sheath of the cable	PVC
of cable sheath	PVC
color of the insulation of data wires 	white/vellow/hlue/orange
 of the insulation of data wires of cable sheath 	white/yellow/blue/orange
bending radius	green

with single bend / minimum permissible	19.5 mm
with single bends / minimum permissible with multiple bends / minimum permissible	49 mm
tensile load / maximum	150 N
weight per length	61 kg/km
ambient conditions	o r Ngran
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	oral
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
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
standards, specifications, approvals / Environmental Product De	eclaration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
total	0.9 kg
 during manufacturing 	0.81 kg
 during 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
 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

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last modified:

2/20/2025 🖸