SIEMENS

Data sheet 6XV1840-2AN50

product type designation

product description



IE FC TP Standard Cable GP 2x2 (Type A)

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.

Technical Product Detail Page	https://i.siemens.com/1P6XV1840-2AN50
suitability for use	Standard cable with rigid cores for fast installation
cable designation	SF/UTP, 2YY (ST) CY 2x2x0,64/1,5-100 GN
wire length	50 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 %
mechanical data	
number of electrical cores	4
design of the shield	SF/UTP, overlapped aluminum-clad foil, sheathed in a protective braided shield of tinned 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	green
with single bend / minimum permissible	19.5 mm
with multiple bends / minimum permissible	49 mm
tensile load / maximum	150 N
weight per length	61 kg/km
ambient conditions	o raginar
ambient temperature	
during operation	-40 +75 °C
during storage	-40 +75 °C
during transport	-40 +75 °C
during installation	-40 +60 °C
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 / general	
product feature	
• halogen-free	No
PoE capability	Yes
PoE+ capability	Yes
• silicon-free	Yes
wire length / for Industrial Ethernet	
with 100BaseTX	100 m
test voltage	
• at AC / core-to-core	2000 V
at AC / core shield	2000 V
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
 resistance to air pollution / conformity according to ANSI/ISA-71.04 	Yes; G3
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
standards, specifications, approvals / Environmental Product Declaration	
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

• to web page: selection aid TIA Selection Tool

to web page: SiePortalto website: Image database

to website: CAx-Download-Managerto website: Industry Online Support

https://support.industry.siemens.com/cs/ww/en/view/109766358

https://www.siemens.com/tstcloud

https://sieportal.siemens.com/

https://www.automation.siemens.com/bilddb

https://www.siemens.com/cax https://support.industry.siemens.com

security information

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Approvals / Certificates

General Product Approval

Manufacturer Declaration







Declaration of Conformity Fire safety / Physical

other

Environment

Industrial Communication

Miscellaneous



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