## **SIEMENS**

Data sheet 6XV1840-2AT20

product description

suitability for use



Standard bus cable (4 wires), preferred length, not assembled

Standard cable with rigid cores for fast installation

IE FC TP Standard Cable 2x2, (PROFINET Type A), CAT5E, bus cable 4-wire, shielded, special configuration for quick assembly to IE FC RJ45 plug 2x2, 200 m.

suitability for use	Standard cable with rigid cores for last installation
cable designation	2YY (ST) CY 2x2x0,64/1,5-100 GN SF/UTP
wire length	200 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
of cable sheath	6.5 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
material	
<ul> <li>of the wire insulation</li> </ul>	polyethylene (PE)
<ul> <li>of the inner sheath of the cable</li> </ul>	PVC
of cable sheath	PVC
color	
<ul> <li>of the insulation of data wires</li> </ul>	white/yellow/blue/orange
of cable sheath	green
bending radius	<u> </u>

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 i kg/kiii
ambient temperature	
•	-40 +75 °C
during operation     during storage	-40 +75 °C
during storage	-40 +75 °C
during transport     during installation	-40 +73 °C
<ul><li>during installation</li><li>note</li></ul>	Electrical properties measured at 20 °C, tests according to DIN VDE 0472
fire behavior	flame resistant according to IEC 60332-3-24 (Cat. C) and UL 1685 (CSA FT 4)
	Eca
class of burning behaviour / according to EN 13501-6  chemical resistance	Eca
	ail registant according to IEC 60044-2-4 (4 h / 70°C)
• 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 product features, product functions, product components / ge	resistant
	nordi
product feature  • halogen-free	No
silicon-free	Yes
	res
wire length / for Industrial Ethernet	400
• with 100BaseTX	100 m
standards, specifications, approvals	V (FTI) (ONO (FTI) BITOUTO (O. B.
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	V
EAC approval	Yes
• CE marking	Yes
RoHS conformity	Yes
standard for structured cabling	Cat5e
Marine classification association	Ma
American Bureau of Shipping Europe Ltd. (ABS)  Translation and a stiffaction assistant (BM)	No No
French marine classification society (BV)  But No. 1 (BN)  Control	No
Det Norske Veritas (DNV)	No
Germanische Lloyd (GL)	No
Lloyds Register of Shipping (LRS)  Niggram (April 16 pages (ARS))	No
Nippon Kaiji Kyokai (NK)  Policki Prince Oct (NK)  Policki Prince (NK)	No
Polski Rejestr Statkow (PRS)	No
reference code	WO
according to IEC 81346-2	WG
according to IEC 81346-2:2019  further information / internet links	WGB
further information / internet links	
internet link	http://www.gigmana.com/tig.gologian.tgg/
to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
to website: Industrial communication     to website: Industria Mall	http://www.siemens.com/simatic-net
to website: Industry Mall     to website: Information and Download Contact	https://mall.industry.siemens.com
to website: Information and Download Center	http://www.siemens.com/industry/infocenter
to website: Selection guide for cables and connectors	https://sie.ag/2QdlxcP
to website: Image database	http://automation.siemens.com/bilddb
to website: CAx-Download-Manager     to web site: Industry Online Company	http://www.siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com

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