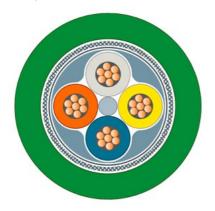
## **SIEMENS**

Data sheet 6XV1840-3AH10

product description



Highly flexible bus cable (4-core), sold by the meter, unassembled

Industrial Ethernet FC TP Trailing Cable, 2x2 (PROFINET Type C), TP installation cable for Connection to FC outlet RJ45, for cable carrier applications, 4-core, shielded, CAT5, sold by the meter (4 million bending cycles), max. delivery unit 2000 m, minimum order quantity 20 m.

suitability for use	Continuous motion control in a cable carrier
cable designation	2YH (ST) C11Y 2x2x0,75/1,5-100 LI GN VZN FRNC SF/UTP
electrical data	
attenuation factor per length	
• at 10 MHz / maximum	0.06 dB/m
at 100 MHz / maximum	0.22 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	120 mΩ/m
operating voltage	
RMS value	80 V
NVP value in percent	66 %
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	0.75 mm
outer diameter	
<ul> <li>of inner conductor</li> </ul>	0.75 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>	FRNC
of cable sheath	PUR (TPE-U)
color	
<ul> <li>of the insulation of data wires</li> </ul>	white/yellow/blue/orange
of cable sheath	green

handle a sadius	
bending radius	40.5
with single bend / minimum permissible	19.5 mm
with multiple bends / minimum permissible	49 mm
with continuous bending  pumber of bending evolves.	100 mm
number of bending cycles	4000000; Drag chain suitable for 4 million bending cycles at a bending radius of 100 mm, a speed of 4 m/s and an acceleration of 4 m/s <sup>2</sup>
tensile load / maximum	150 N
weight per length	63 kg/km
ambient conditions	
ambient temperature	
<ul><li>during operation</li></ul>	-40 +75 °C
<ul> <li>during storage</li> </ul>	-50 +75 °C
<ul> <li>during transport</li> </ul>	-50 +75 °C
<ul> <li>during installation</li> </ul>	-20 +60 °C
• note	Electrical properties measured at 20 °C, tests according to DIN VDE 0472
fire behavior	flame resistant according to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-2-1 (7x24h/90°C)
• to grease	resistant
• to water	resistant
radiological resistance / to UV radiation	resistant
product features, product functions, product components	/ general
product feature	
• halogen-free	Yes
• silicon-free	Yes
wire length / for Industrial Ethernet	
• with 100BaseTX	85 m
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; cULus / CMX
UL/ETL style / 600 V Rating	Yes; cRU AWM I A/B 80°C 600V
certificate of suitability	
<ul> <li>EAC approval</li> </ul>	Yes
• CE marking	Yes
<ul> <li>RoHS conformity</li> </ul>	Yes
standard for structured cabling	Cat5e
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
<ul> <li>French marine classification society (BV)</li> </ul>	No
Det Norske Veritas (DNV)	No
Germanische Lloyd (GL)	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	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 web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industry Mall	https://mall.industry.siemens.com
to website: Information and Download Center	http://www.siemens.com/industry/infocenter
to website: Melmation and Download Center     to website: Selection guide for cables and	https://sie.aq/2QdlxcP
connectors	
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager	http://www.siemens.com/cax
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com
last modified:	10/30/2021 🗗