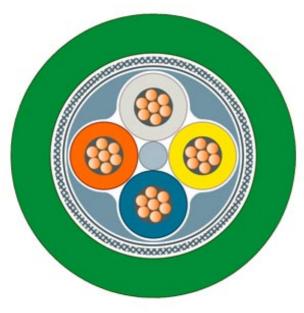
SIEMENS

6XV1840-3AH10 Data sheet

Product type designation

Product description

Suitability for use



IE FC TP Trailing Cable 2 x 2 (Type C)

Continuous motion control in a cable carrier

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 CAT. 5, Sold by the meter (4 million bending cycles), delivery unit max. 2000 m, Minimum order 20

Outlability 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	
Damping ratio 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 core	0.75 mm
Outer diameter	
• of inner conductor	0.75 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 	FRNC
• of cable sheath	PUR (TPE-U)
Color	
 of the insulation of data wires 	white/yellow/blue/orange
 of cable sheath 	green
Bending radius	
with single bend / minimum permissible	19.5 mm
 with multiple bends / minimum permissible 	49 mm
 with continuous bending 	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 ²
Tensile load / maximum	150 N
Weight per length	63 kg/km
Ambient conditions	
Ambient temperature	
during operation	-40 +75 °C
during storage	-50 +75 °C
during transport	-50 +75 °C
during installation	-20 +60 °C
• Note	Electrical properties measured at 20 °C, tests according to DIN VDE 0472
Burning behavior	flame resistant according to IEC 60332-1-2
Class of burning behaviour / according to EN 13501-	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	
• CE marking	Yes
 RoHS conformity 	Yes
Standard for structured cabling	Cat5e
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
Bureau Veritas (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

Further information / Internet-Links

Internet-Link	
 to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst
 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: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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