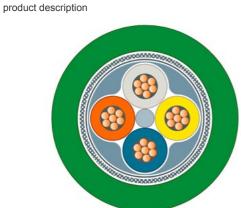
SIEMENS

Data sheet

6XV1840-3AH10



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 ZVH (ST) C11Y 2x2x0,75/1,5-100 LI GN VZN FRNC SF/UTP olectrical data		
electrical data attenuation factor per length • at 10 MHz / maximum 0.06 dB/m • at 10 MHz / maximum 0.22 dB/m impedance • at 1 MHz 100 MHz • of the characteristic impedance at 1 MHz 100 MHz 100 Ω relative symmetrical tolerance • of the characteristic impedance at 1 MHz 100 MHz • of the characteristic impedance at 1 MHz 100 MHz 15 % near-end crosstalk per length • of the characteristic impedance per length / at 10 MHz • loop resistance per length / maximum 120 mΩ/m loop resistance per length / maximum 120 mΩ/m loop resistance per length / maximum 66 % mechanical data • of NVP value NVP value in percent 66 % mechanical data • of AWG22 insulated conductor voer dameter • of AWG22 insulated conductor • of AWG22 insulated conductor 0.75 mm outer diameter • of the wire insulation • of the wire insulation 1.5 mm • of the wire insulation 0.2 mm • of the wire insulation 0.2 mm • of the wire insulation 0.2 mm • of the wire insulation <t< td=""><td>suitability for use</td><td>Continuous motion control in a cable carrier</td></t<>	suitability for use	Continuous motion control in a cable carrier
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transfer impedance per length / at 10 MHz 10 mΩ/m loop resistance per length / maximum 120 mΩ/m operating voltage 80 V • RMS value 80 V NVP value in percent 66 % mechanical data 0 number of electrical cores 4 design of the shield 0 oper dilectrical connection / FastConnect Yes core diameter 0.75 mm outer diameter 0.75 mm of the wire insulation 1.5 mm of the wire insulation 0.2 mm e of able sheath 6.5 mm symmetrical tolerance of the outer diameter / of cable sheath 0.2 mm of the wire insulation 0.2 mm material polyethylene (PE) of the wire insulation polyethylene (PE) of the wire insulation FRNC of the wire insulation PUR (TPE-U)	near-end crosstalk per length	
loop resistance per length / maximum 120 mΩ/m operating voltage 80 V RMS value 80 V NVP value in percent 66 % mechanical data	• at 1 MHz 100 MHz	0.5 dB/m
operating voltage 80 V NVP value in percent 66 % mechanical data 66 % 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 0.75 mm outer diameter 0.75 mm of the wire insulation 1.5 mm of the wire insulation 9.9 mm of cable sheath 6.5 mm symmetrical tolerance of the outer diameter / of cable sheath 6.5 mm of the wire insulation 9.0 yethylene (PE) of the wire insulation polyethylene (PE) of the wire insulation PUR (TPE-U)	transfer impedance per length / at 10 MHz	10 mΩ/m
• RMS value80 VNVP value in percent66 %mechanical datanumber of electrical cores4design of the shieldOverlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wirestype of electrical connection / FastConnectYescore diameter0.75 mmouter diameter0.75 mmof the wire insulation1.5 mmof the wire sheath of the cable6.5 mmof cable sheath0.2 mmof cable sheath0.2 mmof the wire insulationPulk (PE)of the wire insulationPulk (PE)	loop resistance per length / maximum	120 mΩ/m
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 0.75 mm outer diameter 0.75 mm outer diameter 0.75 mm of the wire insulation 1.5 mm of the wire insulation 6.5 mm of cable sheath 6.5 mm of cable sheath 0.2 mm material polyethylene (PE) of the wire insulation FRNC of the inner sheath of the cable FRNC of the inner sheath of the cable PUR (TPE-U)	operating voltage	
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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 0.75 mm outer diameter 0.75 mm outer diameter 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 polyethylene (PE) of the inner sheath of the cable FRNC of the inner sheath of the cable PUR (TPE-U)	NVP value in percent	66 %
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copper wires type of electrical connection / FastConnect Yes core diameter 0.75 mm outer diameter 0.75 mm outer diameter 0.75 mm of the wire insulation 0.75 mm of the wire insulation 0.75 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 polyethylene (PE) of the inner sheath of the cable FRNC of the inner sheath of the cable PUR (TPE-U)	number of electrical cores	4
core diameter 0.75 mm outer diameter 0.75 mm outer diameter 0.75 mm of the wire insulation 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	design of the shield	
• of AWG22 insulated conductor0.75 mmouter diameter-• of inner conductor0.75 mm• of the wire insulation1.5 mm• of the inner sheath of the cable3.9 mm• of cable sheath6.5 mm• of cable sheath0.2 mmmaterial-• of the wire insulationpolyethylene (PE)• of the inner sheath of the cableFRNC• of cable sheathPUR (TPE-U)	type of electrical connection / FastConnect	Yes
outer diameter	core diameter	
• of inner conductor0.75 mm• of the wire insulation1.5 mm• of the inner sheath of the cable3.9 mm• of cable sheath6.5 mm• of cable sheath0.2 mmmaterial0.2 mm• of the wire insulationpolyethylene (PE)• of the inner sheath of the cableFRNC• of cable sheathPUR (TPE-U)colorFRNC	 of AWG22 insulated conductor 	0.75 mm
• of the wire insulation1.5 mm• of the inner sheath of the cable3.9 mm• of cable sheath6.5 mm• of cable sheath0.2 mm• of the wire insulationpolyethylene (PE)• of the wire insulationFRNC• of cable sheathPUR (TPE-U)colorFRNC	outer diameter	
• of the inner sheath of the cable3.9 mm• of cable sheath6.5 mmsymmetrical tolerance of the outer diameter / of cable sheath0.2 mmmaterial	of inner conductor	0.75 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)	 of the wire insulation 	1.5 mm
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• of the wire insulation polyethylene (PE) • of the inner sheath of the cable FRNC • of cable sheath PUR (TPE-U)	symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
of the inner sheath of the cable of cable sheath Color	material	
• of cable sheath PUR (TPE-U) color	of the wire insulation	polyethylene (PE)
color	 of the inner sheath of the cable 	FRNC
	 of cable sheath 	PUR (TPE-U)
of the insulation of data wires white/vellow/blue/orange	color	
	 of the insulation of data wires 	white/yellow/blue/orange
of cable sheath green	 of cable sheath 	
bending radius	bending radius	
with single bend / minimum permissible 19.5 mm		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
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 / ge	eneral
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	
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
according to IEC 81346-2:2019 further information / internet links	WGB
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