SIEMENS

Data sheet

6XV1830-3EH10

product type designation	PROFIBUS FC Trailing Cable
product description	Highly flexible bus cable (2-core), sold by the meter, unassembled
	PROFIBUS FC Trailing Cable, PROFIBUS trailing cable, max. Acceleration 4 m/QS min. 3 million bending cycles min. Bending radius approx. 120 mm 2-wire shielded Sold by the meter Delivery length max. 1000 m Minimum order 20 m
suitability for use	Continuous motion control in a cable carrier
cable designation	02YY (ST) C11Y 1x2x0,65/2,56-150 LI KF 40 FR petrol
electrical data	
attenuation factor per length	
• at 9.6 kHz / maximum	0.003 dB/m
• at 38.4 kHz / maximum	0.004 dB/m
• at 4 MHz / maximum	0.025 dB/m
• at 16 MHz / maximum	0.049 dB/m
impedance	0.043 00/11
rated value	150 Ω
• at 9.6 kHz	270 Ω
• at 38.4 kHz	185 Ω
• at 3 MHz 20 MHz	150 Ω
relative symmetrical tolerance	
of the characteristic impedance at 9.6 kHz	10 %
 of the characteristic impedance at 3.0 kHz of the characteristic impedance at 38.4 kHz 	10 %
•	10 %
of the characteristic impedance at 3 MHz 20 MHz	133 mΩ/m
loop resistance per length / maximum	
shield resistance per length / maximum	14 Ω/km
capacity per length / at 1 kHz	28 pF/m
operating voltage	20.1/
RMS value	80 V
mechanical data	_
number of electrical cores	2
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires
type of electrical connection / FastConnect	Yes
outer diameter	
of inner conductor	0.67 mm
 of the wire insulation 	2.56 mm
 of the inner sheath of the cable 	5.4 mm
of cable sheath	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
material	
 of the wire insulation 	polyethylene (PE)

• of cable sheath

• of the inner sheath of the cable

PUR (TPE-U)

PVC

color	
 of the insulation of data wires 	red/green
 of the insulation of data wires of cable sheath 	petrol
bending radius	petion
-	40 mm
with single bend / minimum permissible	120 mm
with continuous bending	
number of bending cycles	3000000; Drag chain suitable for 3 million bending cycles at a bending radius of 120 mm (15x D), a speed of 4 m/s and an acceleration of 4 m/s ²
tensile load / maximum	100 N
weight per length	77 kg/km
ambient conditions	
ambient temperature	
during operation	-40 +60 °C
during storage	-40 +60 °C
during transport	-40 +60 °C
during installation	-40 +60 °C
• note	Electrical properties measured at 20 °C, tests according to DIN 47250
	part 4 respectively DIN VDE 0472
ambient condition / for operation	Limited segment length (see manual for PROFIBUS networks)
fire behavior	flame resistant according to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Еса
chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-2-1 (7x24h/90°C)
• to grease	resistant
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components	/ general
product feature	
halogen-free	No
• silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(UL)us / CMX
UL/ETL style / 600 V Rating	Yes; cRU AWM I A/B 80°C 600V FT2
certificate of suitability	
EAC approval	Yes
CE marking	Yes
RoHS conformity	Yes
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)	110
	No
reference code	
reference codeacc. to IEC 81346-2	
	No
• acc. to IEC 81346-2	No
acc. to IEC 81346-2according to IEC 81346-2:2019	No
acc. to IEC 81346-2 according to IEC 81346-2:2019 further information / internet-Links	No
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