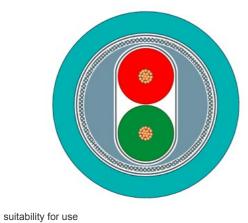
## **SIEMENS**

Data sheet 6XV1830-3EH10

## product type designation

product description



## **PROFIBUS FC Trailing Cable**

Continuous motion control in a cable carrier

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 unit max. 1000 m minimum order quantity 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	
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	
<ul> <li>of the characteristic impedance at 9.6 kHz</li> </ul>	10 %
<ul> <li>of the characteristic impedance at 38.4 kHz</li> </ul>	10 %
• of the characteristic impedance at 3 MHz 20 MHz	10 %
loop resistance per length / maximum	133 mΩ/m
shield resistance per length / maximum	14 Ω/km
capacity per length / at 1 kHz	28 pF/m
operating voltage	
RMS value	80 V
nechanical 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	
<ul> <li>of inner conductor</li> </ul>	0.67 mm
<ul> <li>of the wire insulation</li> </ul>	2.56 mm
<ul> <li>of the inner sheath of the cable</li> </ul>	5.4 mm
of cable sheath	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.4 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	PUR (TPE-U)

<ul><li>of the insulation of data wires</li><li>of cable sheath</li></ul>	red/green petrol
bending radius	
with single bend / minimum permissible	40 mm
with continuous bending	120 mm
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 <sup>2</sup>
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	Eca
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 / ge	eneral
product feature	
halogen-free	No
• silicon-free	Yes
silicon-free standards, specifications, approvals	Yes
	Yes; c(UL)us / CMX
standards, specifications, approvals	
standards, specifications, approvals  UL/ETL listing / 300 V Rating	Yes; c(UL)us / CMX
standards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating	Yes; c(UL)us / CMX
UL/ETL style / 600 V Rating  UL/ETL style / 600 V Rating  certificate of suitability	Yes; c(UL)us / CMX Yes; cRU AWM I A/B 80°C 600V FT2
uL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  certificate of suitability  EAC approval	Yes; c(UL)us / CMX Yes; cRU AWM I A/B 80°C 600V FT2 Yes
standards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  certificate of suitability  • EAC approval  • CE marking	Yes; c(UL)us / CMX Yes; cRU AWM I A/B 80°C 600V FT2  Yes Yes
standards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  certificate of suitability  • EAC approval  • CE marking  • RoHS conformity	Yes; c(UL)us / CMX Yes; cRU AWM I A/B 80°C 600V FT2  Yes Yes
UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating Certificate of suitability  EAC approval  CE marking  RoHS conformity  Marine classification association  American Bureau of Shipping Europe Ltd. (ABS)	Yes; c(UL)us / CMX Yes; cRU AWM I A/B 80°C 600V FT2  Yes Yes Yes Yes
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uL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  certificate of suitability  EAC approval  CE marking  ROHS conformity  Marine classification association  American Bureau of Shipping Europe Ltd. (ABS)  French marine classification society (BV)	Yes; c(UL)us / CMX Yes; cRU AWM I A/B 80°C 600V FT2  Yes Yes Yes No No
standards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  certificate of suitability  • EAC approval  • CE marking  • RoHS conformity  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)	Yes; c(UL)us / CMX Yes; cRU AWM I A/B 80°C 600V FT2  Yes Yes Yes No No No
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UL/ETL listing / 300 V Rating UL/ETL style / 600 V Rating  Certificate of suitability  EAC approval  CE marking  ROHS conformity  Marine classification association  American Bureau of Shipping Europe Ltd. (ABS)  French marine classification society (BV)  Det Norske Veritas (DNV)  Germanische Lloyd (GL)  Lloyds Register of Shipping (LRS)  Nippon Kaiji Kyokai (NK)	Yes; c(UL)us / CMX Yes; cRU AWM I A/B 80°C 600V FT2  Yes Yes Yes No No No No No No No
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