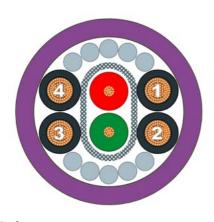
SIEMENS

Data sheet 6XV1860-3PN20

product type designation

product description



PROFIBUS ECOFAST Hybrid Cable GP

ECOFAST Hybrid cable (data and energy wires), preferred length, assembled with ECOFAST connector and socket

PROFIBUS ECOFAST Hybrid Cable GP, 2xCu 0.64 mm, 4x Cu 1.5 mm2, Cable pre-assembled with ECOFAST plug and socket, trailable, length 20 m

suitability for use	Hybrid cable for connection of ECOFAST stations, UL approval
cable designation	02Y (ST)C 1x2x0.65/2.56 -150 LI LIY-Z Y 4x1x1.5 VI
wire length	20 m
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	
 of the characteristic impedance at 9.6 kHz 	10 %
 of the characteristic impedance at 38.4 kHz 	10 %
• of the characteristic impedance at 3 MHz 20 MHz	10 %
loop resistance per length / maximum	138 Ω/km
shield resistance per length / maximum	15 Ω/km
insulation resistance coefficient	20 GΩ·m
operating voltage / maximum	80 V
capacity per length / at 1 kHz	30 pF/m
operating voltage / RMS value	600 V
conductor cross section / of the power line	1.5 mm²
continuous current / of the power lines	12 A
mechanical data	
design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin- plated copper wires
number of electrical cores	6
type of electrical connection / FastConnect	No
outer diameter	
 of inner conductor 	0.67 mm
 of the wire insulation 	2.56 mm
 of cable sheath 	11 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm

material	
of the wire insulation	polyethylene (PE)
of cable sheath	PVC
color	
 of the insulation of data wires 	red / green
of the power line insulation	Black
of cable sheath	Violet
bending radius	
with multiple bends / minimum permissible	110 mm
number of bending cycles	1000000; For use in cable carriers, for 1 million bending cycles with a bending radius of 166 mm (15x D) and an acceleration of 4.0 m/s²
tensile load / maximum	300 N
weight per length	154 kg/km
ambient conditions	
ambient temperature	
during operation	-30 +80 °C
during storage	-30 +80 °C
during transport	-30 +80 °C
during installation	-30 +80 °C
• note	Electrical properties measured at 20 Cel, verification according to DIN
	47250 part 4 respectively DIN VDE 0490
fire behavior	flame-retardant according to IEC 60332-3-24 (Category C)
chemical resistance	
• to mineral oil	Conditional resistance
• to grease	Conditional resistance
radiological resistance / to UV radiation	resistant
protection class IP	IP65
product features, product functions, product components	/ general
product feature	
• halogen-free	Yes
• silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	Yes; CM / CL3 / SunRes / OilRes
certificate of suitability	
 EAC approval 	Yes
RoHS conformity	Yes
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: Selection guide for cables and connectors 	https://sie.ag/2QdlxcP
• 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

last modified: 5/21/2021 **©**