

Product type designation	ECOFAST Fiber Optic Hybrid Cable (DESINA conform)
Product description	ECOFAST Hybrid cable (LWL fiber and energy wires), product sold by meter, unassembled ECOFAST Fiber Optic Hybrid DESINA-compliant cable, trailable cable with 2 plastic FOC and 4 copper cores 1.5 mm ² , sold by the meter, Minimum order 5000 m lower quantities possible following consultation, but price on request
Suitability for use	DESINA-compliant devices (e.g. for ET 200X), construction of optical PROFIBUS DP networks indoors
Cable designation	I-(ZN)V4Y11Y 2P 980/1000 + 4x1.5
Electrical data	
Operating voltage / maximum	80 V
Operating voltage / RMS value	100 V
Conductor cross section / of the power wire	1.5 mm ²
Continuous current / of the power wires	12 A
Optical data	
Damping ratio per length / at 660 nm / maximum	280 dB/km
Bandwidth length product / at 650 nm	10 GHz·m
Mechanical data	
Number of fibers / per FOC core	1
Number of FO cores / per FOC cable	2
Version of the FO conductor fiber	Step index fiber 980/1000 μm
Design of the fiber-optic cable	Segmentable
Number of electrical cores	4
Type of electrical connection / FastConnect	No
Outer diameter	
• of the cable	10.6 mm
• of cable sheath	10.6 mm
• of the optical fibers	980 μm
• of the optical fiber sheath	1000 μm
• of the FOC core sheath	2.2 mm
Material	
• of the fiber-optic cable core	Polymethyl methacrylate (PMMA)
• of the optical fiber sheath	Fluoridated special polymer
• of the FOC core sheath	PA
• of the fiber-optic cable sheath	PUR
Color	
• of the power wire insulation	Black

• of the FOC core sheath	Black / orange
Bending radius	
• with multiple bends / minimum permissible	110 mm
Number of bending cycles	5000000; For use in cable carriers, for 5 million bending cycles with a bending radius of 106 mm (10 x D)
Tensile load / maximum	60 N
Short-term shear force per length	10 N/cm
Continuous lateral force per length	1 N/cm
Weight per length	146 kg/km

Ambient conditions

Ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-20 ... +60 °C
• during transport	-20 ... +60 °C
• during installation	-5 ... +50 °C
Burning behavior	flame-retardant according to IEC 60332-1
Class of burning behaviour / according to EN 13501-6	Fca
Chemical resistance	
• to mineral oil	Conditional resistance
• to grease	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	No
UL/ETL style / 600 V Rating	No
Certificate of suitability	
• RoHS conformity	Yes

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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