



SIMATIC NET,
ECOFAST FIBER OPTIC HYBRID CABLE DESINA
COMPLIANT,
TRAILING TYPE CABLE WITH 2 PLASTIC FO CABLES
AND 4 COPPER CONDUCTORS 1.5 SQMM,
NOT PREASSEMBLED, PREFERRED LENGTH 20 M

Acceptability for application

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

Cable length

20 m

Electrical data

Operating voltage / RMS value	100 V
Conductor cross section / of the power wires	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 FOC 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 wires	4
Outer diameter	
• of optical fibers	980 μm
• of the optical fiber sheath	1000 μm
• of the FOC core sheath	2.2 mm

Outer diameter / of the cable	10.6 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
• Note	For use in cable carriers, for 5 million bending cycles with a bending radius of 106 mm (10 x D)
Traction stress / maximum	60 N
Short-term shear force per length	10 N/cm
Continuous lateral force per length	1 N/cm
Permitted ambient conditions	
Ambient temperature	
• during operating	-20 ... +60 °C
• during storage	-20 ... +60 °C
• during transport	-20 ... +60 °C
• during installation	-5 ... +50 °C
Chemical resistance	
• to mineral oil	Conditional resistance
• to grease	Conditional resistance
Radiological resistance / to UV radiation	resistant
Product properties, functions, components / general	
Product feature	
• halogen-free	No
• silicon-free	Yes
Standards, specifications, approvals	
UL/ETL listing / with 300 V rating	No
UL/ETL style / with 600 V rating	No
Verification of suitability	
• RoHS conformity	Yes
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