

Product-type designation	
FO Trailing Cable GP	
SIMATIC NET FO TRAILING CABLE GP 50/125, PREASSEMBLED WITH 2X2 BFOC CONNECTORS, LENGTH 20 M	
	
Product description	Glass fiber-optic cable, preferred length, preassembled
Cable designation	AT-W(ZN)Y(ZN)Y 2G 50/125
Cable length	20 m
Optical data	
Damping ratio per length	
• at 850 nm / maximum	2.7 dB/km
• at 1300 nm / maximum	0.7 dB/km
Bandwidth length product	
• at 850 nm	600 GHz·m
• at 1300 nm	1200 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	Multi-mode gradient fiber 50/125 µm, OM 2
Design of the fiber-optic cable	Segmentable
Outer diameter	
• of optical fibers	50 µm
• of the optical fiber sheath	125 µm
• of the FOC core sheath	2.9 mm
Symmetrical deviation / of the outer diameter of the FOC core sheath	0.1 mm

Outer diameter / of the cable	10.5 mm
Symmetrical deviation / of the outer diameter of the line	0.5 mm
Material	
• of the FOC core sheath	PVC
• of the fiber-optic cable sheath	PVC
Color	
• of the cable sheath	green
Bending radius	
• with single bend / minimum permissible	150 mm
• with multiple bends / minimum permissible	200 mm
Number of bending cycles	3500000
Traction stress / maximum	800 N
Short-term shear force per length	700 N/cm
Continuous lateral force per length	400 N/cm
Weight per length	90 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-25 ... +80 °C
• during storage	-25 ... +80 °C
• during transport	-25 ... +80 °C
• during installation	-5 ... +50 °C
Protection class IP	IP20
Chemical resistance	
• to mineral oil	Conditional resistance
• to grease	Conditional resistance
Product properties, functions, components / general	
Product feature	
• halogen-free	No
• silicon-free	Yes
Product component / Rodent protection	No
Cable length	
• for glass FOC	
• for 100BaseFX / for Industrial Ethernet / maximum	5000 m
• for 1000BaseSX / for Industrial Ethernet / maximum	750 m
• for 1000BaseLX / for Industrial Ethernet / maximum	2000 m
• for glass FOC / for PROFIBUS / maximum	3000 m
Standards, specifications, approvals	
Verification of suitability	UL approval: OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 °C, FT1, FT4 (CSA standard C22.2 No. 232-M1988)
• RoHS conformity	Yes

