

product type designation	FO Standard Cable GP
product description	Glass fiber-optic cable, preferred length, preassembled
	FO Standard Cable GP 50/125, pre-assembled with 2x LC duplex connectors, length 300 m.



suitability for use	Cable for installation indoors and outdoors, UL approval
version of the assembled FO cable	Pre-assembled with 2x LC DUPLEX connectors
cable designation	AT-W(ZN)YY 2x1 G 50/125 OM2++
wire length	300 m
optical data	
attenuation factor 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 FO cores / per FOC cable	2
version of the FO conductor fiber	Multi-mode gradient fiber 50/125 µm, OM 2
design of the FOC core	Hollow core, filled, diameter 1400 µm
design of the fiber-optic cable	segmentable
outer diameter	
• of the 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
width / of cable sheath	7.4 mm
thickness / of cable sheath	4.5 mm
material	
• of the fiber-optic cable core	Quartz glass
• of the optical fiber sheath	Quartz glass
• of the FOC core sheath	PVC
• of the fiber-optic cable sheath	PVC
• of the strain relief	Aramid fibers
color	
• of the FOC core sheath	orange/black
• of cable sheath	green
bending radius	
• with single bend / minimum permissible	45 mm
• with multiple bends / minimum permissible	65 mm
tensile load	

during installation / short-term	1200 N
during operation / maximum	500 N
short-term shear force per length	600 N/cm
continuous shear force per length	400 N/cm
weight per length	40 kg/km
ambient conditions	
ambient temperature	
during operation	-25 ... +80 °C
during storage	-25 ... +80 °C
during transport	-25 ... +80 °C
during installation	-5 ... +50 °C
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
chemical resistance	
to mineral oil	conditional resistance
to grease	conditional resistance
radiological resistance / to UV radiation	resistant
protection class IP	IP20
product features, product functions, product components / general	
product feature	
halogen-free	No
silicon-free	Yes
product component / rodent protection	No
wire length	
for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum	5000 m
for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum	750 m
for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum	2000 m
for glass FOC / with PROFIBUS / maximum	3000 m
standards, specifications, approvals	
certificate of suitability	
UL approval	Yes; c(UL)us OFN FT4
RoHS conformity	Yes
reference code	
according to IEC 81346-2	WH
according to IEC 81346-2:2019	WHA
further information / internet links	
internet link	
to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
to website: Industrial communication	https://www.siemens.com/simatic-net
to web page: SiePortal	https://sieportal.siemens.com/
to website: Image database	https://www.automation.siemens.com/bilddb
to website: CAX-Download-Manager	https://www.siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
security information / header	
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