

**product type designation**

product description

**FO Standard Cable GP**

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
<b>optical data</b>	
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
<b>mechanical data</b>	
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	

<ul style="list-style-type: none"> <li>during installation / short-term</li> </ul>	1200 N
<ul style="list-style-type: none"> <li>during operation / maximum</li> </ul>	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
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-25 ... +80 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-25 ... +80 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-25 ... +80 °C
<ul style="list-style-type: none"> <li>during installation</li> </ul>	-5 ... +50 °C
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
chemical resistance	
<ul style="list-style-type: none"> <li>to mineral oil</li> </ul>	conditional resistance
<ul style="list-style-type: none"> <li>to grease</li> </ul>	conditional resistance
radiological resistance / to UV radiation	resistant
protection class IP	IP20
<b>product features, product functions, product components / general</b>	
product feature	
<ul style="list-style-type: none"> <li>halogen-free</li> </ul>	No
<ul style="list-style-type: none"> <li>silicon-free</li> </ul>	Yes
product component / rodent protection	No
wire length	
<ul style="list-style-type: none"> <li>for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum</li> </ul>	5000 m
<ul style="list-style-type: none"> <li>for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum</li> </ul>	750 m
<ul style="list-style-type: none"> <li>for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum</li> </ul>	2000 m
<ul style="list-style-type: none"> <li>for glass FOC / with PROFIBUS / maximum</li> </ul>	3000 m
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>UL approval</li> </ul>	Yes; c(UL)us OFN FT4
<ul style="list-style-type: none"> <li>RoHS conformity</li> </ul>	Yes
reference code	
<ul style="list-style-type: none"> <li>according to IEC 81346-2</li> </ul>	WH
<ul style="list-style-type: none"> <li>according to IEC 81346-2:2019</li> </ul>	WHA
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>to web page: SiePortal</li> </ul>	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAX-Download-Manager</li> </ul>	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information / header</b>	
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[Manufacturer Declaration](#)

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