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Fax: +49 9923 804379-50

Phone: +49 9923 804379-0

Germany

Technologiekampus 2

14 Teisnach

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AWG 27 - A WG 26

This diagram shows an exploded view of a 1000BASE-T Ethernet port module. The module is a rectangular component with a circular ventilation grille on its top surface. It is designed to be inserted into a larger chassis or backplane. The diagram illustrates the module's internal components, including the RJ45 port and the internal wiring connections, and shows how it fits into the chassis with a locking mechanism.

				drawn	01.04.2015	MJ	 EasyLan® ...for a better connectivity
				appr.	02.04.2015	GF	
				Titel: fixLink® Extender Kat. 6_A ISO/IEC AWG 27-26			
c b a	Änderung Anpassungen Neuerstellung	17.03.2022 20.07.2015 01.04.2015	MW/ MJ/ MJ	Drawing number: ZN-CU151030			Dimensions: mm Original: DIN A4 Sheet 1 of 4
Index	Revision Code	Date	Name				

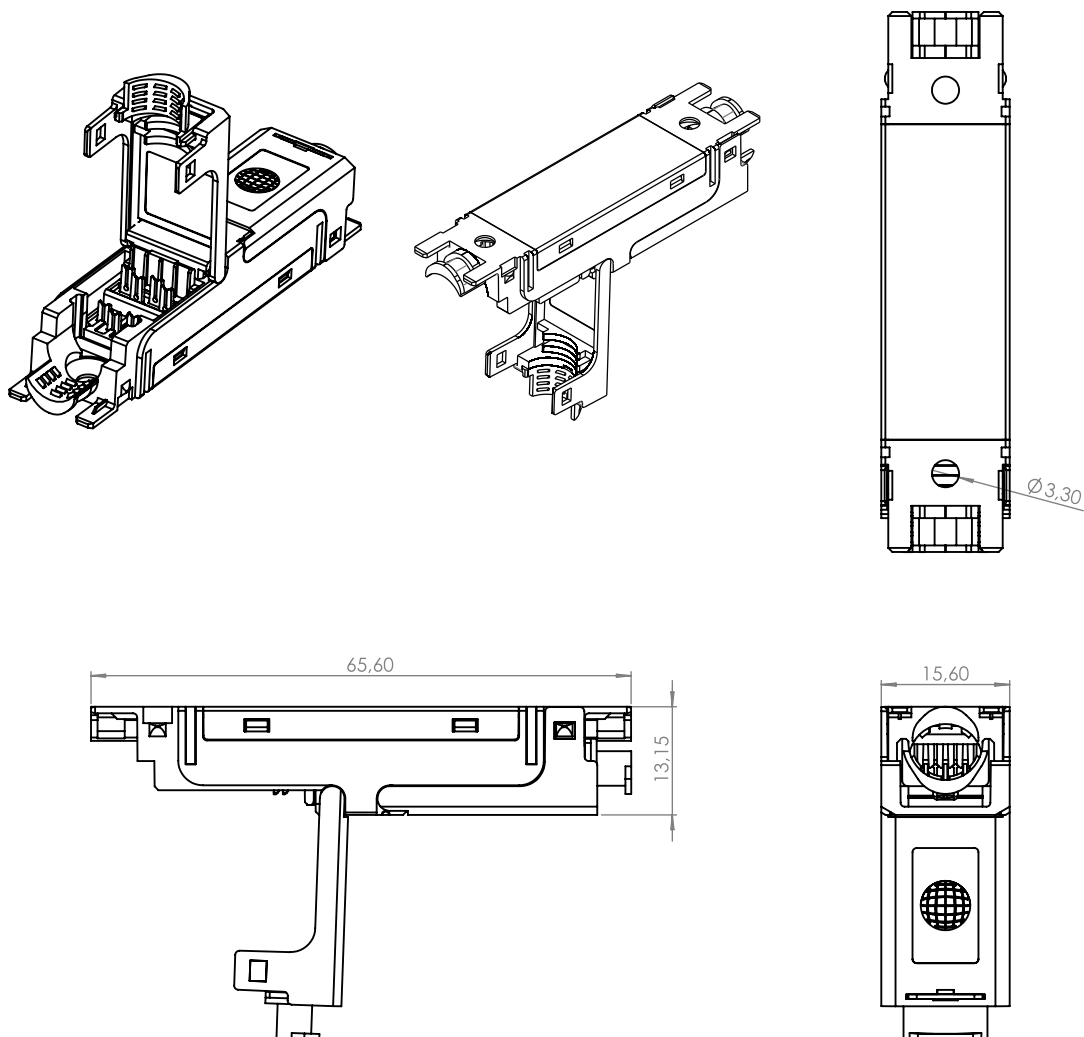
Technical Data

Mechanical Characteristics	
Conductor diameter	flex / stranded 0,457-0,483 mm / AWG 27/7 - AWG 26/7
Insulation diameter	5 - 9 mm
Reusable (Module)	≤ 5 cycles with the same diameter
EC Directive 2002/95/EC (RoHS)	RoHS-compliant
Materials	
Housing	zinc diecast
Strain-relief sliver	zinc diecast
Surface	nickel plating
PCB	FR-4
PCB finish	lead-free
Insulation housing	PA light green (RAL 6027)
Contact support plate	PC white (RAL 9010)
IDC	CuNi2Si
IDC finish	min. 3-6 µm (120-240µin) Sn
Environmental Requirements	
Particulate ingress	IP2X
Water ingress	IPX0
Ambient temperature	-40°C to +70°C
Electrical Characteristics	
Contact resistance	≤ 20 mΩ
Insulation resistance	≥ 500 MΩ
Voltage proof - contact-contact	≥ 1000 V (DC)
Voltage proof - contact-shield	≥ 1500 V (DC)
Current carrying capacity at 50°C	1,25 A
4PPoE according to IEEE 802.3bt	Suitable
Transfer Impedance at 1 MHz	≤ 100 mΩ
Transfer Impedance at 10 MHz	≤ 200 mΩ
Transfer Impedance at 80 MHz	≤ 1600 mΩ
Transmission Performance	
10 Gigabit Ethernet acc. to IEEE 802.3an	adequate
Class EA (ISO/IEC 11801)	max. length of link 90m
Typical values ¹⁾	NEXT = 2,0 dB / RL = 4,0 dB

¹⁾ PL2 measurement: 20m

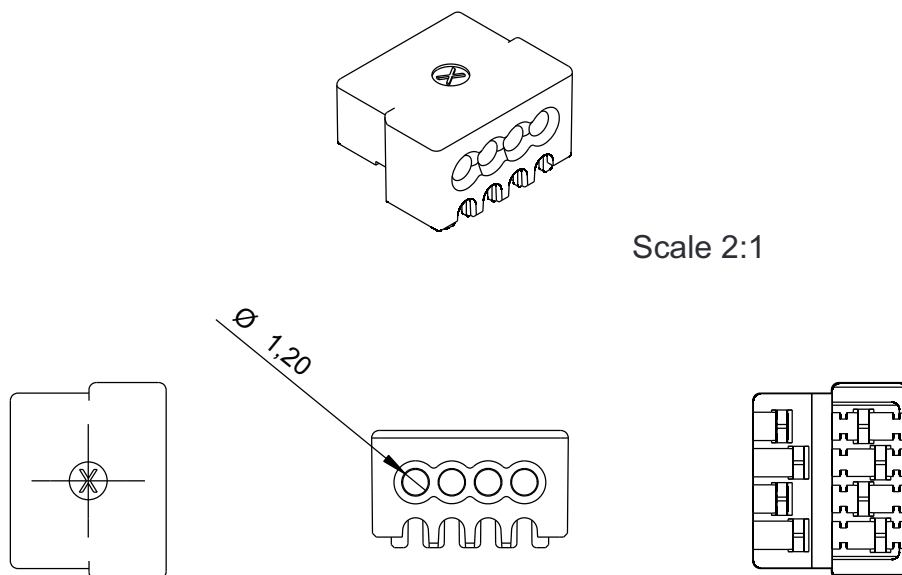
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				Sheet 2 of 4		

Drawing

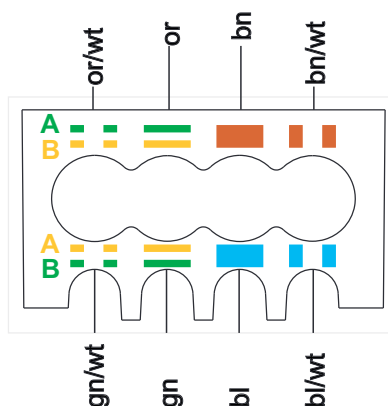
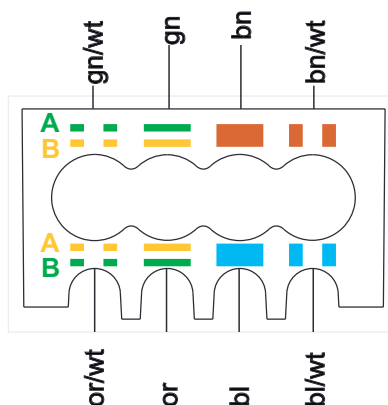
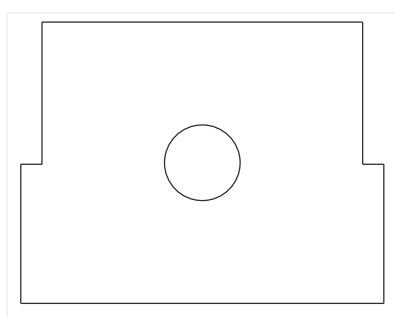


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				Sheet 3 of 4		

Drawing



Configuration



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