

# GigaBit Module heavy|mate F

## THE solution for high data rates

### Features

- Up to 10 Gigabit/s
- CAT 7
- Combinable within the modular system with signal and power
- Eight (8) crimp contacts (four data pairs)
- 100% shielded
- Robust
- Space saving

### Areas of Application

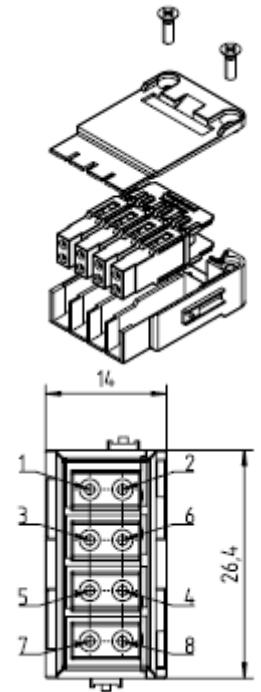
- Railway technology, e.g. wagon to wagon data interface
- Data processing center
- ....



## Technical Data

General Characteristics	Standard	Value
Number of contacts		8
Termination technique		Crimp
Wire gauge		0,09 - 0,52 mm <sup>2</sup> AWG 28 - AWG 20
Cable clamping range		5 - 12 mm
Flammability	UL 94	V-0
Electrical Characteristics	Standard	Value
Rated voltage	IEC 60664-1	50 V
Pollution degree	IEC 60664-1	3
Installation (overvoltage) category	IEC 60664-1	3
Material group	IEC 60664-1	2
rated impulse withstand voltage	IEC 60664-1	0,8 kV
Rated current T <sub>amb</sub> = 40°C		5 A
Contact resistance	IEC 60512-2-1	≤ 5 mΩ
Insulation resistance	IEC 60512-3-1	≥ 10 <sup>10</sup> Ω
Connector category	IEC 11801 / ANSI/TIA/EIA-568-C2	CAT 7
Climatical Characteristics	Standard	Value
Climatic category	IEC 60068-1	40 / 125 / 21
Upper temperature	IEC 60512-11-9	+125 °C
Lower temperature	IEC 60512-11-10	-40 °C
Mechanical Characteristics	Standard	Value
Mechanical operation	IEC 60512-9-1	≥ 500 mating cycles
Materials		
Shielding barrel		zinc alloy
Cable clamp (separate part nr)		zinc alloy
Insulation material		PC
Contacts		CuZn (brass)
Contact plating		Au (gold)

## Insert



Contact number	Colour
1	green/white
2	green
3	orange/white
6	orange
5	blue/white
4	blue
7	brown/white
8	brown

Description	part number
<b>Module</b>	
Male insert	C146 10A001 800 15
Female insert	C146 10B001 800 15
<b>Insert Gigabit</b>	
Contact carrier male without shield connection to the frame	C146 10A008 901 15
Contact carrier male with shield connection to the frame	C146 10A008 902 15
Contact carrier female without shield connection to the frame	C146 10B008 901 15
Contact carrier female with shield connection to the frame	C146 10B008 902 15
<b>Cable clamp</b>	
Cable clamp 5 - 7 mm	N16 146 0011
Cable clamp 7- 10 mm	N16 146 0012
Cable clamp 10 - 12 mm	N16 146 0013

Description	part number
<b>Contacts</b>	
Pin contact 0,09 - 0,25 mm <sup>2</sup>	VN01 010 0066 2C
Pin contact 0,13 - 0,33 mm <sup>2</sup>	VN01 010 0067 2C
Pin contact 0,25 - 0,52 mm <sup>2</sup>	VN01 010 0068 2C
Socket contact 0,09 - 0,25 mm <sup>2</sup>	VN02 010 0066 2C
Socket contact 0,13 - 0,33 mm <sup>2</sup>	VN02 010 0067 2C
Socket contact 0,25 - 0,52 mm <sup>2</sup>	VN02 010 0068 2C

### General Information

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