



Pushing Performance  
Since 1945

# M12 Cat6A Bu gerade VWM



Image is for illustration purposes only. Please refer to product description.

Part number	21 03 381 2813
Specification	M12 Cat6A Bu gerade VWM
HARTING eCatalogue	<a href="https://b2b.harting.com/21033812813">https://b2b.harting.com/21033812813</a>

## Identification

Category	Connectors
Series	Circular connectors M12
Identification	PushPull
Element	PCB adapter
Specification	Straight incl. housing for front mounting

## Version

Termination method	Reflow soldering termination (THR)
Gender	Female
Shielding	Shielded
Number of contacts	8
Coding	X-coding
Locking type	Screw locking PushPull

## Technical characteristics

Rated current	0.5 A
Rated voltage	50 V
Rated impulse voltage	0.8 kV
Pollution degree	3
Transmission characteristics	Cat. 6A Class E <sub>A</sub> up to 500 MHz
Overvoltage category	III



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## Technical characteristics

Data rate	10 Mbit/s
	100 Mbit/s
	1 Gbit/s
	2.5 Gbit/s
	5 Gbit/s
	10 Gbit/s
Insulation resistance	$>10^8 \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Tightening torque	2 Nm Lock nut
Limiting temperature	-40 ... +85 °C
Mating cycles	$\geq 100$
Degree of protection acc. to IEC 60529	IP65 / IP67 mated condition
Isolation group	IIIa ( $175 \leq \text{CTI} < 400$ )

## Material properties

Material (insert)	Liquid crystal polymer (LCP)
Material (contacts)	Copper alloy
Surface (contacts)	Au over Ni Mating side
Material (hood/housing)	Zinc die-cast
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	6(c): Copper alloy containing up to 4 % lead by weight
ELV status	compliant with exemption
China RoHS	50
REACH Annex XVII substances	Not contained
REACH ANNEX XIV substances	Not contained
REACH SVHC substances	Yes
REACH SVHC substances	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol
	Lead
ECHA SCIP number	0d7d3693-d625-47ab-934a-d241bf72c86e
California Proposition 65 substances	Yes
California Proposition 65 substances	Lead
	Nickel
	Naphthalene
Fire protection on railway vehicles	EN 45545-2 (2020-08)



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## Material properties

Requirement set with Hazard Levels	R26
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## Specifications and approvals

Specifications	IEC 61076-2-109
UL / CSA	UL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079

## Commercial data

Packaging size	1
Net weight	27.4 g
Country of origin	Romania
European customs tariff number	85389099
GTIN	5713140138285
eCl@ss	27460201 PCB connector (board connector)