Pushing Performance
Since 1945

T1 IP20 -M12 T1 SPE 1x2xAWG22/7 PUR 2,0m



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

Part number	33 28 021 4002 020
Specification	T1 IP20 -M12 T1 SPE 1x2xAWG22/7 PUR 2,0m
HARTING eCatalogue	https://b2b.harting.com/33280214002020

Identification

Category	System cabling
Series	HARTING T1 Industrial Circular connectors M12
Element	Cable assemblies
Specification	Pre-assembled on both sides
Connector 1	HARTING T1 Industrial Overmoulded IP20
Connector 2	M12 Single Pair Ethernet (SPE) Slim Design Straight Screw locking IP65 / IP67 mated condition Zinc die-cast
Type of cable	Copper cable (round)
Description of the cable	Halogen-free Oil resistant Flame retardant

Version

Cable length	2 m
Number of cores	2
Core structure	1x 2x AWG 22/7
Termination method	Crimp termination
Gender	Male
Shielding	Fully shielded, 360° shielding contact

HARTING Customised Solutions GmbH & Co. KG | In der Tütenbeke 22 | 32339 Espelkamp | Germany
Phone +49 5772 47-0 | info@HARTING.com | www.HARTING.com

Pushing Performance
Since 1945

Version

Number of contacts	2
further contacts	+ shielding
Coding	Single Pair Ethernet (SPE)

Technical characteristics

Rated current	4 A
Rated voltage	60 V DC
Transmission characteristics	600 MHz Bandwidth
Data rate	10 Mbit/s 100 Mbit/s 1 Gbit/s 2.5 Gbit/s 5 Gbit/s 10 Gbit/s
Contact resistance	≤20 mΩ
Shielding resistance	≤100 mΩ
Limiting temperature	-40 ... +80 °C unmoved -25 ... +80 °C moved
Mating cycles	≥1,000
Test voltage U_{DC}	1 kV (contact-contact) 2.25 kV (contact-ground)

Material properties

Material (cable)	PUR (polyurethane)
Colour (cable)	Yellow
RoHS	compliant
ELV status	compliant
China RoHS	e
REACH Annex XVII substances	Not contained
REACH ANNEX XIV substances	Not contained
REACH SVHC substances	Yes
REACH SVHC substances	Potassium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate
ECHA SCIP number	ff02956a-37e1-4ebf-a7f4-c1f2ab790cc0
California Proposition 65 substances	Yes
California Proposition 65 substances	Lead Nickel

HARTING Customised Solutions GmbH & Co. KG | In der Tütenbeke 22 | 32339 Espelkamp | Germany
Phone +49 5772 47-0 | info@HARTING.com | www.HARTING.com

Pushing Performance
Since 1945

Specifications and approvals

Specifications	IEC 63171-6
	IEEE 802.3bu (remote power supply over PoDL = Power over Data Line)
	IEEE 802.3cg (10BASE-T1)
	IEEE 802.3bw (100BASE-T1)
	IEEE 802.3bp (1000BASE-T1)
	IEEE 802.3ch (2.5GBASE-T1 / 5GBASE-T1 / 10GBASE-T1)
	IEC 60332-1-2 Flame retardancy
	EN 60811-404 Oil resistance

Commercial data

Packaging size	1
Net weight	120 g
Country of origin	Latvia
European customs tariff number	85444290
GTIN	5713140263093
ETIM	EC002599
eCl@ss	27060390 Ready-made data cable (unspecified)

HARTING Customised Solutions GmbH & Co. KG | In der Tütenbeke 22 | 32339 Espelkamp | Germany
Phone +49 5772 47-0 | info@HARTING.com | www.HARTING.com