

HC-28P1N1280DU - Cable connector



1590412

<https://www.phoenixcontact.com/pc/products/1590412>

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Cable connector, straight, Screw locking mechanism, M27, number of positions: 28, contact connection type: Pin, shielded: yes, degree of protection: IP67, when plugged in, cable diameter range: 2 mm ... 14.5 mm, number of positions: 28, connection method: Solder connection, series: HC, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1240153

Commercial data

Item number	1590412
Packing unit	12 pc
Minimum order quantity	1 pc
Product key	ABRAJA
GTIN	4046356187428
Weight per piece (including packing)	100.66 g
Weight per piece (excluding packing)	80.25 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

General	Order crimp contacts Ø 1 mm separately
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Product properties

Product type	Circular connector (cable-side)
Series	HC
Application	Signal
Number of positions	28
Connection profile	28
Shielded	yes
Coding	N
Thread type	M27

Material specifications

Seal material	FPM or NBR or EPDM
Housing material	Metal
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Insulator material	PA66
Contact material	CuZn
Contact surface	Nickel-plated, gold coating
Gasket and O-ring material	FPM

Connection data

Conductor connection

Connection method	Solder connection
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Electrical properties

Contact

Contact diameter	1 mm
Min. cross section	0.08 mm ²
Max. cross section	1 mm ²
Max. current	8 A
Nominal voltage U _N	48 V AC 74 V DC
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	1.5 kV

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	50
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Connector

Type	straight
Direction of rotation	Standard

Cable/line

External cable diameter	2 mm ... 14.5 mm
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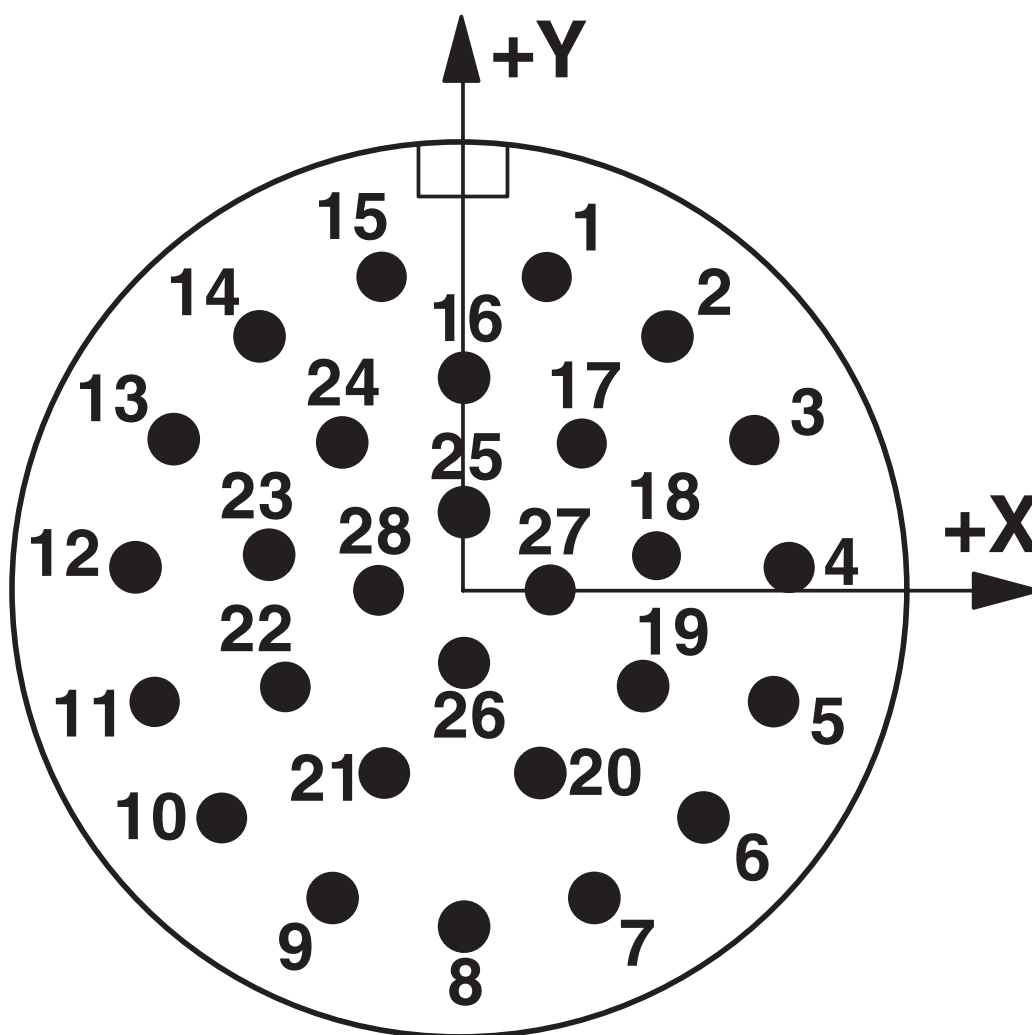
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67, when plugged in
Ambient temperature (operation)	-20 °C ... 125 °C
Altitude	2000 m

Drawings

Schematic diagram



Connector pin assignment

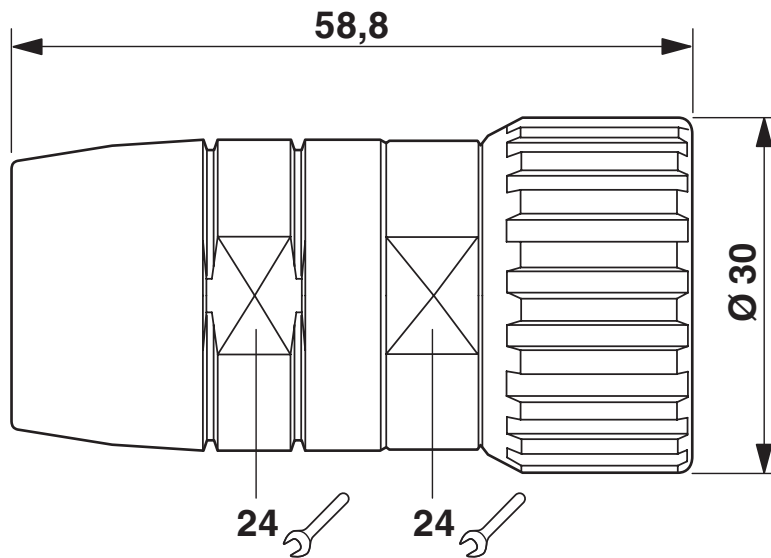
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Dimensional drawing



Dimensional drawing

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Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 8.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	77d92e6e-a083-4822-965e-58b1af959925

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Accessories

HC-11P2000 - Crimp contact

1623428

<https://www.phoenixcontact.com/pc/products/1623428>



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.08 mm² ... 0.22 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244901

HC-12P2000 - Crimp contact

1623430

<https://www.phoenixcontact.com/pc/products/1623430>



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.14 mm² ... 0.56 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244901

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HC-1KP2000 - Crimp contact

1623432

<https://www.phoenixcontact.com/pc/products/1623432>



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.5 mm² ... 1 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244903

PROT-M27-SG-IT-IP20 - Plastic protective cap

1577209

<https://www.phoenixcontact.com/pc/products/1577209>



Plastic protective cap, M27, degree of protection: IP20, series: HC

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