

# HC-28P1N1280DU - Cable connector



1590412

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

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The figure shows the 26-pos. product version

Cable connector, application: Signal, straight, Screw locking mechanism, M27, number of positions: 28, contact connection type: Pin, shielded: yes, degree of protection: IP67, cable diameter range: 2 mm ... 14.5 mm, number of positions: 28, connection method: Solder cup, series: HC, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## Commercial data

Item number	1590412
Packing unit	12 pc
Minimum order quantity	1 pc
Sales key	AB31
Product key	ABRAJA
GTIN	4046356187428
Weight per piece (including packing)	100.66 g
Weight per piece (excluding packing)	88.389 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Order information:	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

Material Housing	GD-Zn
Material Rotating parts	CuZn
Material Housing surface	Ni
Seal material	FPM or NBR or EPDM
Insulator material	PA66
Gasket and O-ring material	FPM

### Connection data

#### Conductor connection

Connection method	Solder cup
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### Electrical properties

#### Contact

Contact diameter	1 mm
Min. cross section	0.08 mm <sup>2</sup>
Max. cross section	1 mm <sup>2</sup>
Nominal current I <sub>N</sub>	8 A
Nominal voltage U <sub>N</sub>	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

## Connection 1

Head design	Pin
Head cable outlet	straight
Head thread type	M27

## 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

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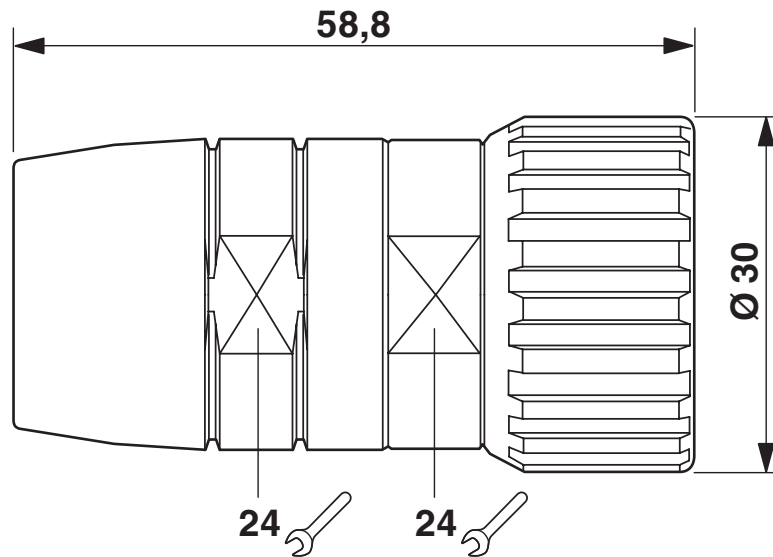


1590412

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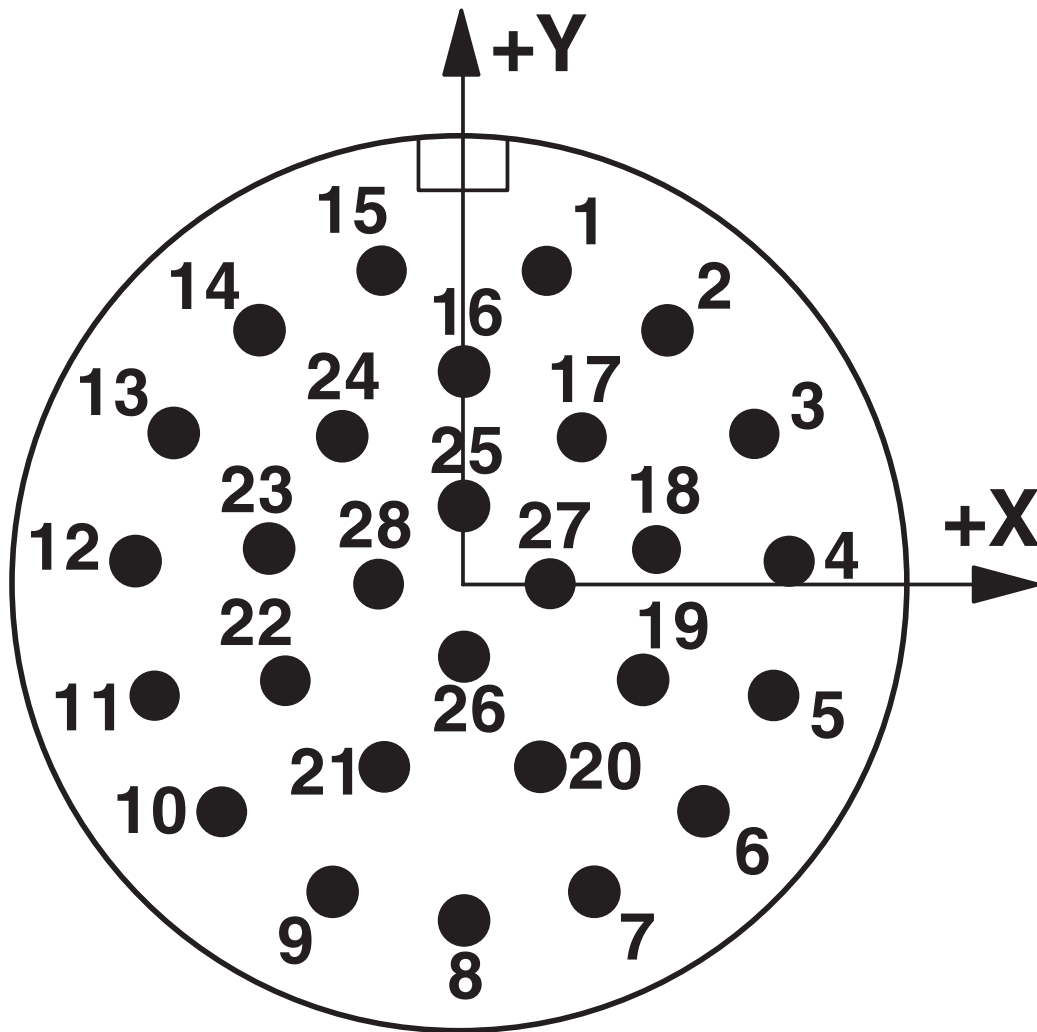
## Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram



Connector pin assignment

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## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

### ETIM

ETIM 10.0	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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