

HC-28S1N1280DU - Cable connector



1590432

<https://www.phoenixcontact.com/us/products/1590432>

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The figure shows the 26-pos. product version

Cable connector, application: Signal, straight, Screw locking mechanism, M27, contact connection type: Socket, 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 | 1590432 |
| Packing unit | 12 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | AB31 |
| Product key | ABRAJA |
| GTIN | 4046356187572 |
| Weight per piece (including packing) | 96.88 g |
| Weight per piece (excluding packing) | 85.309 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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Technical data

Product properties

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

Material specifications

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

Connection data

Conductor connection

| | |
|-------------------|------------|
| Connection method | Solder cup |
|-------------------|------------|

Electrical properties

Contact

| | |
|--------------------------------|----------------------|
| Contact diameter | 1 mm |
| Min. cross section | 0.08 mm ² |
| Max. cross section | 1 mm ² |
| Nominal current I _N | 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 |
|-----------------------------|----|

Connector

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| | |
|-----------------------|----------|
| Type | straight |
| Direction of rotation | Standard |

Connection 1

| | |
|-------------------|----------|
| Head design | Socket |
| Head cable outlet | straight |
| Head thread type | M27 |

Cable/line

| | |
|-------------------------|------------------|
| External cable diameter | 2 mm ... 14.5 mm |
|-------------------------|------------------|

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|-------------------|
| Degree of protection | IP67 |
| Ambient temperature (operation) | -20 °C ... 125 °C |
| Altitude | 2000 m |

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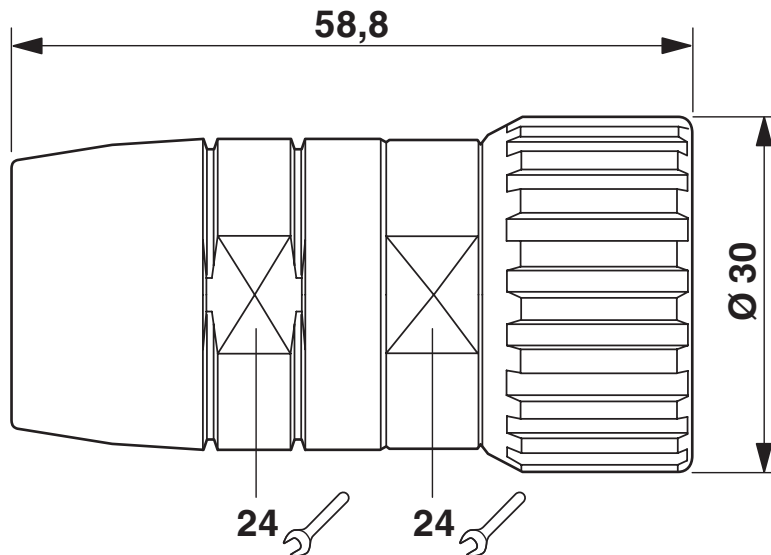


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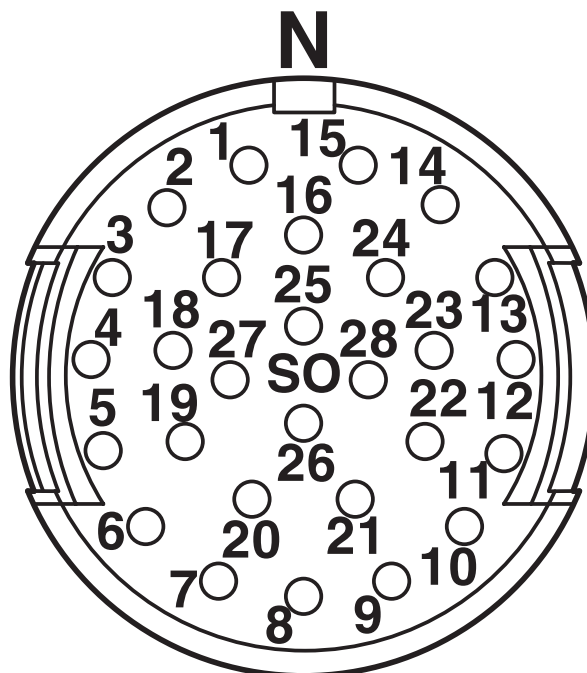
Drawings

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 |
|-----------|----------|

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 | aca3c9cf-9d88-4d2b-9d0b-8696a74487e7 |

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