

RF-12S1N8A80DU - Cable connector



1607276

<https://www.phoenixcontact.com/us/products/1607276>

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Cable connector, straight, Screw locking mechanism, M23, number of positions: 12, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 5 mm . .. 13.2 mm, number of positions: 12, connection method: Crimp connection, series: RF, this item is expected to be lead-free from Q3 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance, This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives.

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1607276 |
| Packing unit | 20 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB31 |
| Product key | ABRAGA |
| GTIN | 4046356174343 |
| Weight per piece (including packing) | 100.75 g |
| Weight per piece (excluding packing) | 93.28 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 |
|--------------------|--|

Product properties

| | |
|---------------------|---------------------------------|
| Product type | Circular connector (cable-side) |
| Series | RF |
| Application | Feedback, signal |
| | Signal |
| Number of positions | 12 |
| Connection profile | 12 |
| Shielded | yes |
| Coding | N |
| Thread type | M23 |

Material specifications

| | |
|--------------------------|--------------|
| Material Housing | GD-Zn |
| Material Rotating parts | CuZn |
| Material Housing surface | Ni |
| Material Insulating body | PA 6.6 |
| Material Seal | FPM (O-ring) |
| Seal material | FPM |

Connection data

| | |
|----------------------|------------------|
| Conductor connection | |
| Connection method | Crimp connection |

Electrical properties

| | |
|-----------------------|---------|
| Contact | |
| Contact diameter | 1 mm |
| 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 |

Connector

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

| | |
|--------------|--|
| Connection 1 | |
|--------------|--|

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| | |
|-------------------|----------|
| Head design | Socket |
| Head cable outlet | straight |
| Head thread type | M23 |

Cable/line

| | |
|-------------------------|------------------|
| External cable diameter | 5 mm ... 13.2 mm |
|-------------------------|------------------|

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|-------------------|
| Degree of protection | IP67 |
| Ambient temperature (operation) | -40 °C ... 125 °C |
| Altitude | 2000 m |

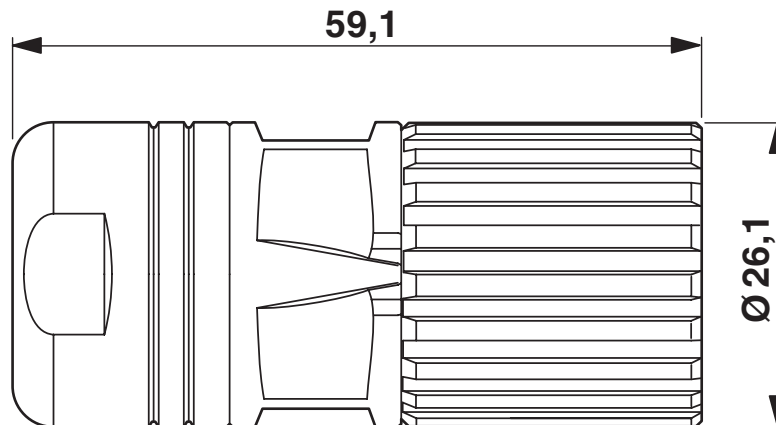
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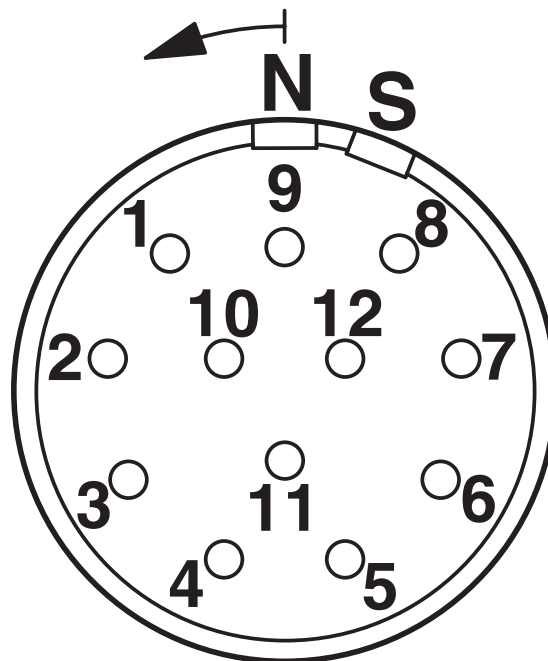
Drawings

Dimensional drawing



RF-12(17)...N8A80DU

Schematic diagram



Connector pin assignment

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1607276>

| | | | | |
|-------|--|-----------------------|-------------------|-----------------------------|
| keine |  cUL Recognized Approval ID: E153698-20090723 | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 48 V | 5 A | 20 | - |

| | | | | |
|-------|---|-----------------------|-------------------|-----------------------------|
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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 27440116 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | 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 | b03f85af-f18d-4325-baf6-28c9c04e61f2 |

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