

RF-12S2N8A80DU - Cable connector



1607297

<https://www.phoenixcontact.com/us/products/1607297>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



The figure shows the product version with standard contact chamber numbering

Cable connector, application: Feedback, signal, 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. Alternative products: 1069313

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1607297 |
| Packing unit | 20 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB31 |
| Product key | ABRAGA |
| GTIN | 4046356174367 |
| Weight per piece (including packing) | 100.55 g |
| Weight per piece (excluding packing) | 93.28 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

RF-12S2N8A80DU - Cable connector



1607297

<https://www.phoenixcontact.com/us/products/1607297>

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 |
| 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) |

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 | Counter direction |

Connection 1

| | |
|-------------------|----------|
| Head design | Socket |
| Head cable outlet | straight |

RF-12S2N8A80DU - Cable connector



1607297

<https://www.phoenixcontact.com/us/products/1607297>

| | |
|------------------|-----|
| 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) | -20 °C ... 125 °C |
| Altitude | 2000 m |

RF-12S2N8A80DU - Cable connector



1607297

<https://www.phoenixcontact.com/us/products/1607297>

Drawings

Dimensional drawing



RF-12(17)...N8A80DU

Schematic diagram



Connector pin assignment

RF-12S2N8A80DU - Cable connector



1607297

<https://www.phoenixcontact.com/us/products/1607297>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1607297>

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

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

RF-12S2N8A80DU - Cable connector



1607297

<https://www.phoenixcontact.com/us/products/1607297>

Classifications

ECLASS

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

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002635 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

RF-12S2N8A80DU - Cable connector



1607297

<https://www.phoenixcontact.com/us/products/1607297>

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 | f0342d81-43ff-4d7d-9f0d-d9f86687c86e |

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com