

UC-12S2N1280DU - Cable connector



1606403

<https://www.phoenixcontact.com/us/products/1606403>

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.



M23, Cable connector, series: UC, straight, shielded: yes, Screw locking mechanism, No. of pos. : 12, Direction of rotation: Counter direction, contact connection type: Socket, Solder cup, coding: N, 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	1606403
Packing unit	20 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB31
Product key	ABRAIA
GTIN	4046356259330
Weight per piece (including packing)	95.58 g
Weight per piece (excluding packing)	90.721 g
Customs tariff number	85366990
Country of origin	DE

UC-12S2N1280DU - Cable connector



1606403

<https://www.phoenixcontact.com/us/products/1606403>

Technical data

Product properties

Product type	Circular connector (cable-side)
--------------	---------------------------------

Connector

Insulating body

Coding	N
Material (Insulating body)	PBT
Material (Contact)	CuZn
Material (Contact surface)	Ni/Au
Insertion/withdrawal cycles	50
Connection method	Solder cup
Contact switching type	Socket
Application	Signal
Number of positions	12
Direction of rotation	Counter direction
Connection profile	12
Number Contact (Contact group 1)	12
Diameter Contact (Contact group 1)	1 mm
Litz wire cross-section min. Contact (Contact group 1)	0.08 mm ²
Litz wire cross-section max. Contact (Contact group 1)	1 mm ²
Rated current Contact (Contact group 1)	8 A (for max. connection cross section)
Rated voltage Contact (Contact group 1)	48 V AC
	74 V DC
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3

Housing

Type	Cable connector housing
Thread type	M23
Design	straight
Type of locking	Screw locking mechanism
Pg screw connection	none
Material (Housing)	GD-Zn
Material (Rotating parts)	CuZn
Material (Housing surface)	Ni
Material (Seal)	FPM (O-ring)
Degree of protection (plugged in)	IP67

UC-12S2N1280DU - Cable connector

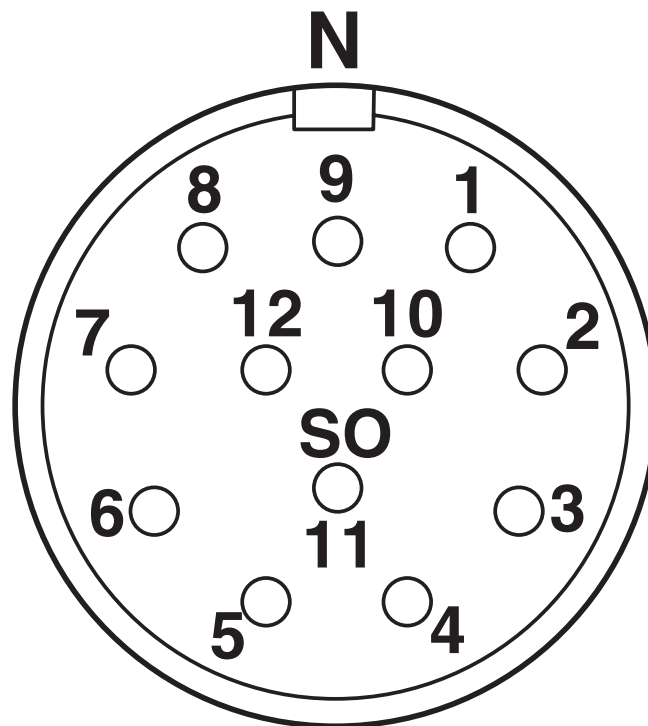
1606403

<https://www.phoenixcontact.com/us/products/1606403>



Drawings

Schematic diagram



Connector pin assignment

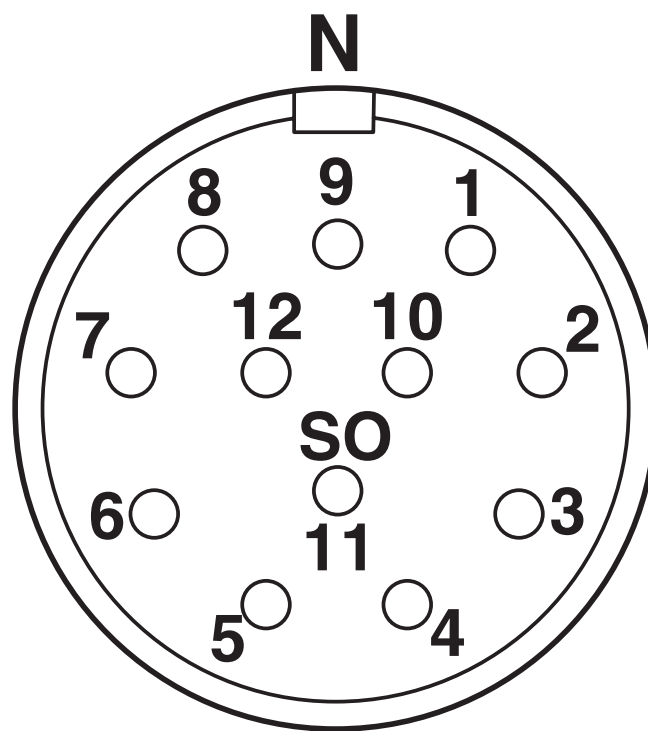
UC-12S2N1280DU - Cable connector

1606403

<https://www.phoenixcontact.com/us/products/1606403>



Schematic diagram



Connector pin assignment

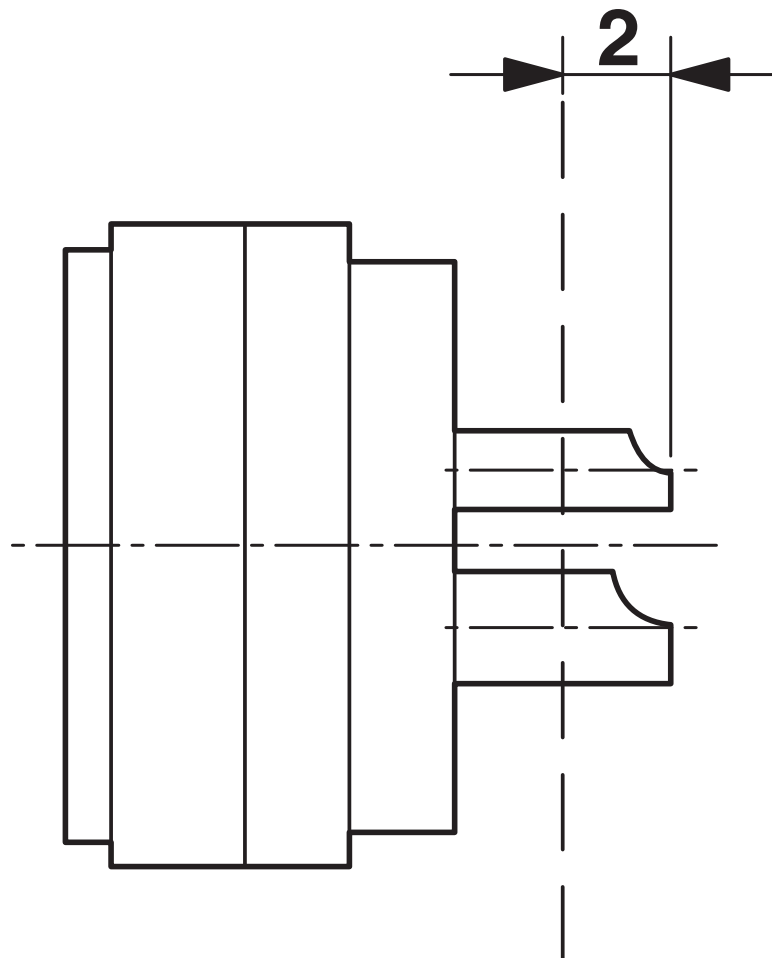
UC-12S2N1280DU - Cable connector

1606403

<https://www.phoenixcontact.com/us/products/1606403>



Schematic diagram



Dimensional drawing

UC-12S2N1280DU - Cable connector



1606403

<https://www.phoenixcontact.com/us/products/1606403>

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 9.0	EC002635
----------	----------

UNSPSC

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

UC-12S2N1280DU - Cable connector



1606403

<https://www.phoenixcontact.com/us/products/1606403>

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: n/a)
SCIP	fcc6c4c5-29ee-4447-9b4d-a2bb0539b6bf

Phoenix Contact 2025 © - 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