

TU-09S1N8A8UDU - Cable connector



1605939

<https://www.phoenixcontact.com/us/products/1605939>

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, application: Signal, series: TU, straight, shielded: yes, Bayonet locking, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, cable diameter range: 2 mm ... 14.5 mm, coding: N. 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	1605939
Packing unit	12 pc
Minimum order quantity	1 pc
Product key	ABRAHA
GTIN	4046356255967
Weight per piece (including packing)	110.13 g
Weight per piece (excluding packing)	100.42 g
Country of origin	DE

TU-09S1N8A8UDU - Cable connector



1605939

<https://www.phoenixcontact.com/us/products/1605939>

Technical data

Product properties

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

Connector

Insulating body

Note	Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
Coding	N
Material (Insulating body)	PA 6.6
Connection method	Crimp connection
Contact switching type	Socket
Application	Signal
Number of positions	9
Direction of rotation	Standard
Connection profile	8+1
Number (Contact group 1)	1
Contact diameter (Contact group 1)	2 mm
Rated current Contact (Contact group 1)	20 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
Number (Contact group 2)	8
Contact diameter (Contact group 2)	1 mm
Rated current Contact (Contact group 2)	8 A
Rated voltage Contact (Contact group 2)	48 V AC 48 V AC

Housing

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

Seal

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

TU-09S1N8A8UDU - Cable connector



1605939

<https://www.phoenixcontact.com/us/products/1605939>

Seal material	NBR
---------------	-----

Environmental and real-life conditions

Ambient conditions

Permissible humidity (storage/transport)	50 % ... 65 %
--	---------------

TU-09S1N8A8UDU - Cable connector

1605939

<https://www.phoenixcontact.com/us/products/1605939>



Drawings

Schematic diagram



Connector pin assignment

TU-09S1N8A8UDU - Cable connector

1605939

<https://www.phoenixcontact.com/us/products/1605939>



Schematic diagram



Connector pin assignment

TU-09S1N8A8UDU - Cable connector



1605939

<https://www.phoenixcontact.com/us/products/1605939>

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

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

UNSPSC

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

TU-09S1N8A8UDU - Cable connector



1605939

<https://www.phoenixcontact.com/us/products/1605939>

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	a32f0bba-4b66-4346-9b50-16e6dbaa5f56

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