

FTP 3+1 - Test plug



3069222

<https://www.phoenixcontact.com/us/products/3069222>

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.

Test plug, nom. voltage: 400 V, nominal current: 24 A, connection method: Screw connection, Rated cross section: 2.5 mm², color: gray



Your advantages

- The test blocks can be used universally for voltage transducers and current transformers
- The robust test plug guarantees user-friendly handling and provides fixing options for the test cables to be connected

- The integrated, robust switch contact is designed for the most stringent demands, and the use of high-quality materials ensures the transmission of signal currents, even after multiple actuations

Commercial data

Item number	3069222
Packing unit	1 pc
Sales key	BE06
Product key	BE6111
Catalog page	Page 615 (C-1-2019)
GTIN	4055626114842
Weight per piece (including packing)	282.8 g
Weight per piece (excluding packing)	250 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Product properties

Product type	Test plug terminal block
Number of positions	4
Pitch	8.2 mm
Number of rows	1
Potentials	4

Insulation characteristics

Overvoltage category	III
----------------------	-----

Electrical properties

Maximum load current	24 A
Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	1.31 W
Test surge voltage	5 kV

Connection data

Nominal cross section	6 mm ²
Maximum load current	24 A
Test socket torque	0.5
Note	The conductor cross section depends on the cable lug used
Conductor cross section flexible	0.5 mm ² ... 2.5 mm ²
Conductor cross section, flexible [AWG]	20 ... 14 (converted acc. to IEC)
Nominal current	24 A
Maximum load current	24 A
Nominal voltage	400 V
Nominal cross section	2.5 mm ²

Dimensions

Pin diameter	5.7 mm
Pitch	8.2 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3

FTP 3+1 - Test plug



3069222

<https://www.phoenixcontact.com/us/products/3069222>

Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

Electrical tests

Surge voltage test

Test voltage setpoint	4.8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 4 mm ²	300 A
	500 A
	1250 A
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
-----------------	----

Mechanical tests

Mechanical strength

Result	Test passed
--------	-------------

Attachment on the carrier

DIN rail/fixing support	Panel cutout
Test force setpoint	5 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.2 mm ² / 0.2 kg
	6 mm ² / 1.4 kg
	10 mm ² / 2 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	$1.857 \text{ (m/s}^2\text{)}/\text{Hz}$
Acceleration	0.8g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

Ambient conditions

Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (storage/transport)	30 % ... 70 %

Mounting

Mounting type	Insertion in base strip
---------------	-------------------------

Drawings

Circuit diagram



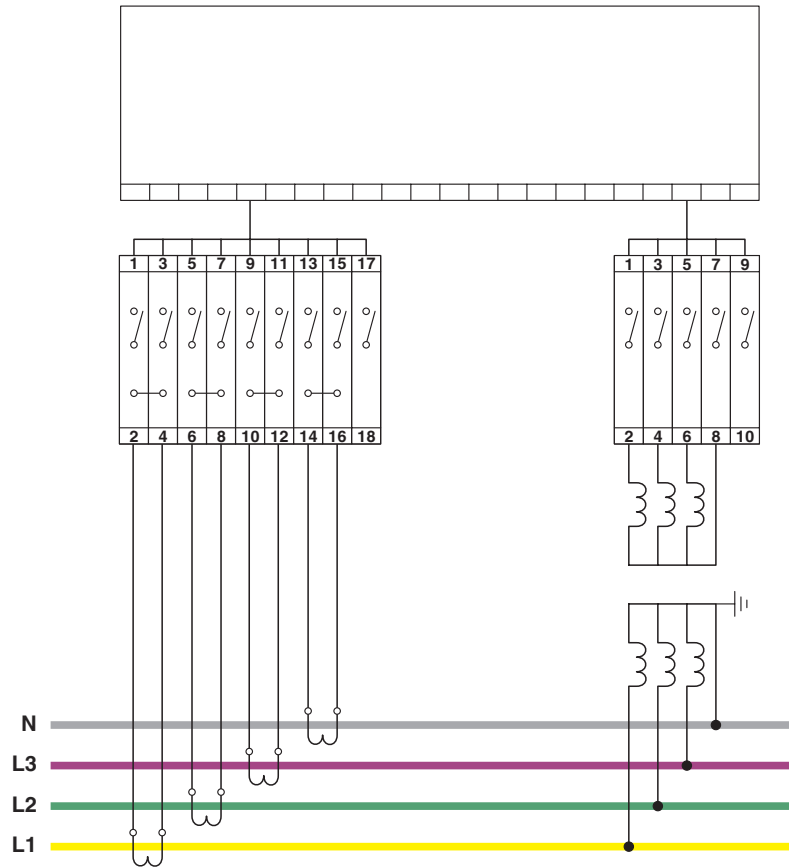
FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



Circuit diagram



FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3069222>



EAC

Approval ID: RU C-DE.BL08.B.00511



cULus Recognized

Approval ID: E60425

Classifications

ECLASS

ECLASS-11.0	27141190
ECLASS-12.0	27141190
ECLASS-13.0	27141190

ETIM

ETIM 9.0	EC002848
----------	----------

UNSPSC

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

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



Accessories

i Note: Applying some accessories below might limit this product.

FBS 2-8 - Plug-in bridge

3030284

<https://www.phoenixcontact.com/us/products/3030284>



Plug-in bridge, pitch: 8.2 mm, number of positions: 2, color: red

i Max. current carrying capacity: 24 A

FBS 3-8 - Plug-in bridge

3030297

<https://www.phoenixcontact.com/us/products/3030297>



Plug-in bridge, pitch: 8.2 mm, number of positions: 3, color: red

i Max. current carrying capacity: 24 A

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



FBS 4-8 - Plug-in bridge

3030307

<https://www.phoenixcontact.com/us/products/3030307>



Plug-in bridge, pitch: 8.2 mm, number of positions: 4, color: red

 Max. current carrying capacity: 24 A

FBS 5-8 - Plug-in bridge

3030310

<https://www.phoenixcontact.com/us/products/3030310>



Plug-in bridge, pitch: 8.2 mm, number of positions: 5, color: red

 Max. current carrying capacity: 24 A

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



FBS 10-8 - Plug-in bridge

3030323

<https://www.phoenixcontact.com/us/products/3030323>



Plug-in bridge, pitch: 8.2 mm, number of positions: 10, color: red

 Max. current carrying capacity: 24 A

FBS 6-8 - Plug-in bridge

3032470

<https://www.phoenixcontact.com/us/products/3032470>



Plug-in bridge, pitch: 8.2 mm, number of positions: 6, color: red

 Max. current carrying capacity: 24 A

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



FBS 1/3-8 - Plug-in bridge

3032363

<https://www.phoenixcontact.com/us/products/3032363>



Plug-in bridge, pitch: 8.2 mm, number of positions: 3, pin assignment: 1,3, color: red

 Max. current carrying capacity: 24 A

FBS 1/4-8 - Plug-in bridge

3032376

<https://www.phoenixcontact.com/us/products/3032376>



Plug-in bridge, pitch: 8.2 mm, number of positions: 4, pin assignment: 1, 4, color: red

 Max. current carrying capacity: 24 A

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



FBS 1/3/5-8 - Plug-in bridge

3032389

<https://www.phoenixcontact.com/us/products/3032389>



Plug-in bridge, pitch: 8.2 mm, number of positions: 5, pin assignment: 1,3,5, color: red

 Max. current carrying capacity: 24 A

FBS 1/4/7/10-8 - Plug-in bridge

3032402

<https://www.phoenixcontact.com/us/products/3032402>



Plug-in bridge, pitch: 8.2 mm, number of positions: 10, pin assignment: 1,4,7,10, color: red

 Max. current carrying capacity: 24 A

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



FBS 1/5-8 - Plug-in bridge

3032381

<https://www.phoenixcontact.com/us/products/3032381>



Plug-in bridge, pitch: 8.2 mm, number of positions: 5, pin assignment: 1,5, color: red

 Max. current carrying capacity: 24 A

FBSRH 2-8 - Short-circuit connector

3033802

<https://www.phoenixcontact.com/us/products/3033802>



Short-circuit connector, pitch: 8.2 mm, number of positions: 2, color: red

 Max. current carrying capacity: 24 A

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



FBSRH 3-8 - Short-circuit connector

3033803

<https://www.phoenixcontact.com/us/products/3033803>



Short-circuit connector, pitch: 8.2 mm, number of positions: 3, color: red

 Max. current carrying capacity: 24 A

FBSRH 4-8 - Short-circuit connector

3033804

<https://www.phoenixcontact.com/us/products/3033804>



Short-circuit connector, pitch: 8.2 mm, number of positions: 4, color: red

 Max. current carrying capacity: 24 A

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



SB-MER 2-8 - Switching jumper

3000587

<https://www.phoenixcontact.com/us/products/3000587>



Switching jumper, pitch: 8.2 mm, number of positions: 2, length: 25 mm, color: gray/orange

 Max. current carrying capacity: 24 A

SB-MER 3-8 - Switching jumper

3000588

<https://www.phoenixcontact.com/us/products/3000588>



Switching jumper, pitch: 8.2 mm, number of positions: 3, length: 25 mm, color: gray/orange

 Max. current carrying capacity: 24 A

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



SB-MER 4-8 - Switching jumper

3000589

<https://www.phoenixcontact.com/us/products/3000589>



Switching jumper, pitch: 8.2 mm, number of positions: 4, length: 25 mm, color: gray/orange

 Max. current carrying capacity: 24 A

FBS 2-8 CT - Plug-in bridge

3033830

<https://www.phoenixcontact.com/us/products/3033830>



Plug-in bridge, pitch: 8.2 mm, number of positions: 2, color: orange

 Max. current carrying capacity: 24 A

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



FBS 3-8 CT - Plug-in bridge

3033831

<https://www.phoenixcontact.com/us/products/3033831>



Plug-in bridge, pitch: 8.2 mm, number of positions: 3, color: orange

 Max. current carrying capacity: 24 A

FBS 4-8 CT - Plug-in bridge

3033832

<https://www.phoenixcontact.com/us/products/3033832>



Plug-in bridge, pitch: 8.2 mm, number of positions: 4, color: orange

 Max. current carrying capacity: 24 A

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



FBS 10-8 CT - Plug-in bridge

3033833

<https://www.phoenixcontact.com/us/products/3033833>



Plug-in bridge, pitch: 8.2 mm, number of positions: 10, color: orange

 Max. current carrying capacity: 24 A

FBS 2-8 BU - Plug-in bridge

3032567

<https://www.phoenixcontact.com/us/products/3032567>



Plug-in bridge, pitch: 8.2 mm, number of positions: 2, color: blue

 Max. current carrying capacity: 24 A

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



FBS 3-8 BU - Plug-in bridge

3032570

<https://www.phoenixcontact.com/us/products/3032570>



Plug-in bridge, pitch: 8.2 mm, number of positions: 3, color: blue

 Max. current carrying capacity: 24 A

FBS 4-8 BU - Plug-in bridge

3032583

<https://www.phoenixcontact.com/us/products/3032583>



Plug-in bridge, pitch: 8.2 mm, number of positions: 4, color: blue

 Max. current carrying capacity: 24 A

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



FBS 5-8 BU - Plug-in bridge

3032596

<https://www.phoenixcontact.com/us/products/3032596>



Plug-in bridge, pitch: 8.2 mm, number of positions: 5, color: blue

 Max. current carrying capacity: 24 A

FBS 6-8 BU - Plug-in bridge

3032677

<https://www.phoenixcontact.com/us/products/3032677>



Plug-in bridge, pitch: 8.2 mm, number of positions: 6, color: blue

 Max. current carrying capacity: 24 A

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



FBS 10-8 BU - Plug-in bridge

3032606

<https://www.phoenixcontact.com/us/products/3032606>



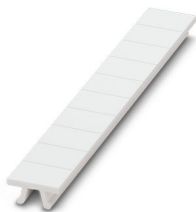
Plug-in bridge, pitch: 8.2 mm, number of positions: 10, color: blue

 Max. current carrying capacity: 24 A

ZB 8:UNBEDRUCKT - Zack marker strip

1052002

<https://www.phoenixcontact.com/us/products/1052002>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 10.5 x 8.15 mm, Number of individual labels: 10

FTP 3+1 - Test plug

3069222

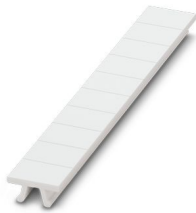
<https://www.phoenixcontact.com/us/products/3069222>



ZB 8 CUS - Zack marker strip

0825011

<https://www.phoenixcontact.com/us/products/0825011>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 8.2 mm, lettering field size: 10.5 x 8.15 mm, Number of individual labels: 10

UC-TM 8 - Marker for terminal blocks

0818072

<https://www.phoenixcontact.com/us/products/0818072>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 56

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



UC-TM 8 CUS - Marker for terminal blocks

0824597

<https://www.phoenixcontact.com/us/products/0824597>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 56

UCT-TM 8 - Marker for terminal blocks

0828740

<https://www.phoenixcontact.com/us/products/0828740>



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 42

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



UCT-TM 8 CUS - Marker for terminal blocks

0829616

<https://www.phoenixcontact.com/us/products/0829616>

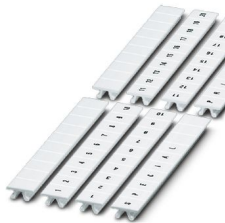


Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 8.2 mm, lettering field size: 7.6 x 10.5 mm, Number of individual labels: 42

ZB 8,LGS:FORTL.ZAHLEN - Zack marker strip

1052015

<https://www.phoenixcontact.com/us/products/1052015>



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 10.5 x 8.15 mm, Number of individual labels: 10

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



ZB 8,QR:FORTL.ZAHLEN - Zack marker strip

1052028

<https://www.phoenixcontact.com/us/products/1052028>

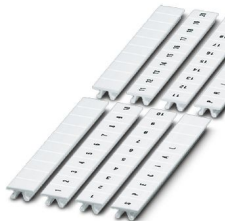


Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 10.5 x 8.15 mm, Number of individual labels: 10

ZB 8,LGS:L1-N,PE - Marker for terminal blocks

1052413

<https://www.phoenixcontact.com/us/products/1052413>



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 8.2 mm, lettering field size: 10.5 x 8.15 mm, Number of individual labels: 10

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



PSBJ-URTK 6 FARBLOS - Test plug strip

3026450

<https://www.phoenixcontact.com/us/products/3026450>



Test plug strip, number of positions: 1, color: transparent

PSBJ-URTK 6 RD - Test plug strip

3026719

<https://www.phoenixcontact.com/us/products/3026719>



Test plug strip, number of positions: 1, color: red

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



PSBJ-URTK 6 BU - Test plug strip

3026434

<https://www.phoenixcontact.com/us/products/3026434>



Test plug strip, number of positions: 1, color: blue

PSBJ-URTK 6 YE - Test plug strip

3026405

<https://www.phoenixcontact.com/us/products/3026405>



Test plug strip, number of positions: 1, color: yellow

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



PSBJ-URTK 6 GN - Test plug strip

3026418

<https://www.phoenixcontact.com/us/products/3026418>



Test plug strip, number of positions: 1, color: green

PSBJ-URTK 6 VT - Test plug strip

3026421

<https://www.phoenixcontact.com/us/products/3026421>



Test plug strip, number of positions: 1, color: violet

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



PSBJ-URTK 6 GY - Test plug strip

3026612

<https://www.phoenixcontact.com/us/products/3026612>



Test plug strip, number of positions: 1, color: gray

PSBJ-URTK 6 BK - Test plug strip

3026447

<https://www.phoenixcontact.com/us/products/3026447>



Test plug strip, number of positions: 1, color: black

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



PSBJ-URTK 6 BN - Test plug strip

3026971

<https://www.phoenixcontact.com/us/products/3026971>



Test plug strip, number of positions: 1, color: brown

PSBJ-URTK 6 WH - Test plug strip

3026448

<https://www.phoenixcontact.com/us/products/3026448>



Test plug strip, number of positions: 1, color: white

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



SF-SL 0,8X4,0-100 - Screwdriver

1212551

<https://www.phoenixcontact.com/us/products/1212551>



Screwdriver, bladed (lasered), size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

SF-SL 0,8X4,0-100 S-VDE - Screwdriver

1212588

<https://www.phoenixcontact.com/us/products/1212588>



Actuation tool, for ST terminal blocks, VDE insulated, with slimmer insulation integrated in the blade, also suitable for use as a bladed screwdriver, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



C-FC 1,5/M3 - Fork-type cable lug

3240137

<https://www.phoenixcontact.com/us/products/3240137>

Fork-type cable lug, non-insulated, 0.5 - 1 mm², M3,5



C-FC 2,5/M3 - Fork-type cable lug

3240142

<https://www.phoenixcontact.com/us/products/3240142>

Fork-type cable lug, non-insulated, 1.1 - 2.5 mm², M3



FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



C-FCI 1,5/M3 - Fork-type cable lug

3240032

<https://www.phoenixcontact.com/us/products/3240032>



Fork-type cable lug, red, 0.5 - 1.5 mm², M3

C-FCI 2,5/M3 - Fork-type cable lug

3240037

<https://www.phoenixcontact.com/us/products/3240037>



Fork-type cable lug, blue, 1.5 - 2.5 mm², M3

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



C-RC 1/M3 DIN - Ring cable lug

3240070

<https://www.phoenixcontact.com/us/products/3240070>



Ring cable lug, non-insulated, 0.5 ... 1 mm², M3

C-RC 2,5/M3 DIN - Ring cable lug

3240076

<https://www.phoenixcontact.com/us/products/3240076>



Ring cable lug, non-insulated, 1.1 ... 2.5 mm², M3

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



C-RCI 1,5/M3 - Ring cable lug

3240016

<https://www.phoenixcontact.com/us/products/3240016>



Ring cable lug, red, 0.5 ... 1.5 mm², M3

C-RCI 2,5/M3 - Ring cable lug

3240021

<https://www.phoenixcontact.com/us/products/3240021>



Ring cable lug, blue, 1.5 ... 2.5 mm², M3

FTP 3+1 - Test plug

3069222

<https://www.phoenixcontact.com/us/products/3069222>



FAME-BAG 260 - Shoulder bag

3069520

<https://www.phoenixcontact.com/us/products/3069520>



Shoulder bag, For FAME connectors with a width of up to 261 mm, depth: 115 mm, width: 290 mm, height: 220 mm, color: black

FTP SCREW M3X4,5 - Screw

3069467

<https://www.phoenixcontact.com/us/products/3069467>



Screw, for attaching cable lugs to FAME test plugs, with cover, without test pick-off, height: 4.5 mm, color: silver/black

Phoenix Contact 2024 © - 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