USST 6-T - Test disconnect terminal block

3070312

https://www.phoenixcontact.com/us/products/3070312

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Test disconnect terminal block, nom. voltage: 500 V, nominal current: 41 A, connection method: Screw connection with spring support, 1 level, Rated cross section: 6 mm^2, cross section: 0.2 mm^2 - 10 mm^2 , mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

Your advantages

- Can be fitted on both sides with fixed bridges as well as test sockets with 4 mm diameter
- Terminal block and accessories are touch proof according to BGV A2

Commercial Data

Item number	3070312
Packing unit	1 pc
Minimum order quantity	50 pc
Sales Key	BE12
Product Key	BE1233
Catalog Page	Page 548 (C-1-2019)
GTIN	4046356543125
Weight per Piece (including packing)	25.946 g
Weight per Piece (excluding packing)	25.837 g
Customs tariff number	85369010
Country of origin	PL

Technical Data

Product properties

Product type	Test disconnect terminal block
Number of connections	2
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.31 W

Connection data

Number of connections per level	2
Nominal cross section	6 mm²
Test socket torque	0.6

1 level

Screw thread	M4
Tightening torque	1.5 ... 1.8 Nm
Stripping length	12 mm
Internal cylindrical gage	A5
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm² ... 10 mm²
Cross section AWG	24 ... 8 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm² ... 6 mm²
Conductor cross section, flexible [AWG]	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² ... 6 mm²
2 conductors with same cross section, solid	0.2 mm² ... 2.5 mm²
2 conductors with same cross section, flexible	0.2 mm² ... 2.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 4 mm²
Nominal current	41 A
Maximum load current	57 A (with 10 mm² conductor cross section)
Nominal voltage	500 V (up to 690 V for pollution degree II)
Nominal cross section	6 mm²

Dimensions

Width	8.2 mm
End cover width	2.2 mm
Height	82 mm
Height NS 35/15	59.5 mm
Height NS 35/7,5	52 mm
Height NS 32	57 mm
Length	82 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))	130 °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
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)	28 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	7.3 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 6 mm²	0.72 A
Short-time withstand current 10 mm²	1.2 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes

Mechanical tests

Mechanical strength

Result	Test passed

Attachment on the carrier

DIN rail/fixing support	NS 32/NS 35
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 mm² / 0.2 kg
	6 mm² / 1.4 kg
	10 mm² / 2 kg
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	2.5 mm² / 0.7 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 Hz to f_2 = 150 Hz
ASD level	1.857 (m/s²)²/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 %

Standards and regulations

Connection in acc. with standard	IEC 60947-7-1

Mounting

Mounting type	NS 35/7,5
	NS 35/15
	NS 32
Screw thread	M3

Drawings

Circuit diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3070312

CSA
Approval ID: 13631

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
	300 V	30 A	24 - 10	-
Use group C				
	300 V	30 A	24 - 10	-
Use group D				
	600 V	5 A	24 - 10	-

EAC
Approval ID: RU C-DE.BL08.B.00534

cULus Recognized
Approval ID: E60425

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
	300 V	30 A	24 - 10	-
Use group C				
	300 V	30 A	24 - 10	-
Use group D				
	600 V	5 A	24 - 10	-

Classifications

ECLASS

ECLASS-11.0	27141126
ECLASS-12.0	27141126
ECLASS-13.0	27250109

ETIM

ETIM 8.0	EC000902

UNSPSC

UNSPSC 21.0	39121400

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Accessories

Note: Applying some accessories below might limit this product.

FBRI 10-8 N - Fixed bridge

2772080

https://www.phoenixcontact.com/us/products/2772080

Fixed bridge, pitch: 8.2 mm, number of positions: 10, color: silver

Max. current carrying capacity: 45 A

D-USST 6-T - End cover

3070367

https://www.phoenixcontact.com/us/products/3070367

End cover, length: 82 mm, width: 2.2 mm, height: 41.7 mm, color: gray

D-USST 6-T CS - End cover

3070369

https://www.phoenixcontact.com/us/products/3070369

End cover, with lateral openings for cable lugs, can also be used as partition plate, length: 82 mm, width: 2.2 mm, height: 41.7 mm, color: gray

SZS 1,0X4,0 VDE - Screwdriver

1205066

https://www.phoenixcontact.com/us/products/1205066

Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

KSS 8 - Short-circuit connector

0311540

https://www.phoenixcontact.com/us/products/0311540

Short-circuit connector, pitch: 8 mm, number of positions: 2, color: black

KSS 4- 8 - Short-circuit connector

0309549

https://www.phoenixcontact.com/us/products/0309549

Short-circuit connector, pitch: 8 mm, number of positions: 4, color: black

ATP-URTK/SP - Partition plate

0311139

https://www.phoenixcontact.com/us/products/0311139

Partition plate, length: 99 mm, width: 2 mm, height: 64 mm, color: gray

SZS 0,6X3,5 - Screwdriver

1205053

https://www.phoenixcontact.com/us/products/1205053

Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

S-URTK/SP - Switching lock

0311155

https://www.phoenixcontact.com/us/products/0311155

Switching lock, length: 12 mm, width: 8.2 mm, color: white

CRIMPFOX-RCI 6 - Crimping pliers

1212057

https://www.phoenixcontact.com/us/products/1212057

Crimping pliers, for insulated cable lugs, 0.5 mm^2 ... 6.0 mm^2 (red, blue, yellow), oval crimp, symmetrical

C-BCI 1,5/2,8 - Cable lug

3240015

https://www.phoenixcontact.com/us/products/3240015

Flat pin cable lug, with tab, soldered neck, red, 0.5 ... 1.5 mm^2, pin width: 2.8 mm, easy conductor entry with Easy-Entry, for horizontal and vertical crimping with CRIMPFOX-RCI 6

C-BCI 1,5/4,6 - Cable lug

3240568

https://www.phoenixcontact.com/us/products/3240568

Flat pin cable lug, with tab, soldered neck, red, 0.5 ... 1.5 mm^2, pin width: 4.6 mm, easy conductor entry with Easy-Entry, for horizontal and vertical crimping with CRIMPFOX-RCI 6

C-BCI 2,5/2,8 - Cable lug

3240046

https://www.phoenixcontact.com/us/products/3240046

Flat pin cable lug, with tab, soldered neck, blue, 1.5 ... 2.5 mm^2, pin width: 2.8 mm, easy conductor entry with Easy-Entry, for horizontal and vertical crimping with CRIMPFOX-RCI 6

C-BCI 2,5/4,6 - Cable lug

3240569

https://www.phoenixcontact.com/us/products/3240569

Flat pin cable lug, with tab, soldered neck, blue, 1.5 ... 2.5 mm^2, pin width: 4.6 mm, easy conductor entry with Easy-Entry, for horizontal and vertical crimping with CRIMPFOX-RCI 6

C-BCI 6/4,6 SO - Cable lug

3240067

https://www.phoenixcontact.com/us/products/3240067

Flat pin cable lug, with tab, soldered neck, yellow, 4 ... 6 mm^2, pin width: 4.6 mm, easy conductor entry with Easy-Entry, for horizontal and vertical crimping with CRIMPFOX-RCI 6

TS-UT 6-T/SP - Separating plate

3072821

https://www.phoenixcontact.com/us/products/3072821

Separating plate, length: 105.2 mm, width: 1 mm, height: 67.5 mm, color: gray

SCP 2-8 - Short-circuit connector

3070402

https://www.phoenixcontact.com/us/products/3070402

Short-circuit connector, pitch: 8.15 mm, number of positions: 2, color: orange

SCP 3-8 - Short-circuit connector

3070403

https://www.phoenixcontact.com/us/products/3070403

Short-circuit connector, pitch: 8.15 mm, number of positions: 3, color: orange

SCP 4-8 - Short-circuit connector

3070404

https://www.phoenixcontact.com/us/products/3070404

Short-circuit connector, pitch: 8.15 mm, number of positions: 4, color: orange

NS 32 PERF 2000MM-VPE 10 - DIN rail perforated

1201002

https://www.phoenixcontact.com/us/products/1201002

DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver, Pack of 10 (20 m)

NS 32 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201015

https://www.phoenixcontact.com/us/products/1201015

DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver, Pack of 10 (20 m)

NS 35/ 7,5 PERF 2000MM - DIN rail perforated

0801733

https://www.phoenixcontact.com/us/products/0801733

DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

NS 35/ 7,5 UNPERF 2000MM - DIN rail, unperforated

0801681

https://www.phoenixcontact.com/us/products/0801681

DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

NS 35/ 7,5 WH PERF 2000MM - DIN rail perforated

1204119

https://www.phoenixcontact.com/us/products/1204119

DIN rail perforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 25 (50 m)

NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204122

https://www.phoenixcontact.com/us/products/1204122

DIN rail, unperforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)

NS 35/ 7,5 AL UNPERF 2000MM - DIN rail, unperforated

0801704

https://www.phoenixcontact.com/us/products/0801704

DIN rail, unperforated, acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver, Pack of 25 (50 m)

NS 35/ 7,5 ZN PERF 2000MM - DIN rail perforated

1206421

https://www.phoenixcontact.com/us/products/1206421

DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

NS 35/ 7,5 ZN UNPERF 2000MM - DIN rail, unperforated

1206434

https://www.phoenixcontact.com/us/products/1206434

DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

0801762

https://www.phoenixcontact.com/us/products/0801762

DIN rail, unperforated, acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)

NS 35/ 7,5 CAP - End cap

1206560

https://www.phoenixcontact.com/us/products/1206560

DIN rail end piece, for DIN rail NS 35/7.5

NS 35/15 PERF 2000MM - DIN rail perforated

1201730

https://www.phoenixcontact.com/us/products/1201730

DIN rail perforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

NS 35/15 UNPERF 2000MM - DIN rail, unperforated

1201714

https://www.phoenixcontact.com/us/products/1201714

DIN rail, unperforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

NS 35/15 WH PERF 2000MM - DIN rail perforated

0806602

https://www.phoenixcontact.com/us/products/0806602

DIN rail perforated, similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: white, Pack of 25 (50 m)

NS 35/15 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204135

https://www.phoenixcontact.com/us/products/1204135

DIN rail, unperforated, similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)

NS 35/15 AL UNPERF 2000MM - DIN rail, unperforated

1201756

https://www.phoenixcontact.com/us/products/1201756

DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

NS 35/15 ZN PERF 2000MM - DIN rail perforated

1206599

https://www.phoenixcontact.com/us/products/1206599

DIN rail perforated, similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

NS 35/15 ZN UNPERF 2000MM - DIN rail, unperforated

1206586

https://www.phoenixcontact.com/us/products/1206586

DIN rail, unperforated, similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

NS 35/15 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201895

https://www.phoenixcontact.com/us/products/1201895

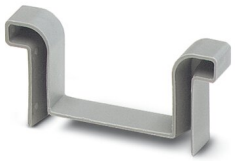
DIN rail, unperforated, similar to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)

NS 35/15 CAP - End cap

1206573

https://www.phoenixcontact.com/us/products/1206573

DIN rail end piece, for DIN rail NS 35/15



NS 35/15-2,3 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201798

https://www.phoenixcontact.com/us/products/1201798

DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile 2.3 mm, color: silver, Pack of 10 (20 m)

ZB 8:UNBEDRUCKT - Zack marker strip

1052002

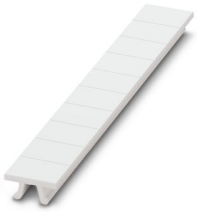
https://www.phoenixcontact.com/us/products/1052002

Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, 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 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

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

UCT-TM 8 CUS - Marker for terminal blocks

0829616

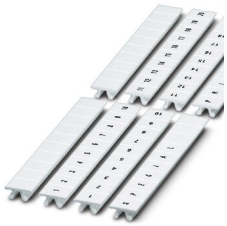
https://www.phoenixcontact.com/us/products/0829616

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

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

1052028

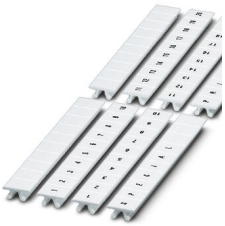
https://www.phoenixcontact.com/us/products/1052028

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

CLIPFIX 35 - End clamp

3022218

https://www.phoenixcontact.com/us/products/3022218

Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

CLIPFIX 35-5 - End clamp

3022276

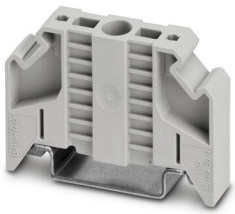
https://www.phoenixcontact.com/us/products/3022276

Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5. 15 mm, color: gray

E/NS 35 N - End clamp

0800886

https://www.phoenixcontact.com/us/products/0800886

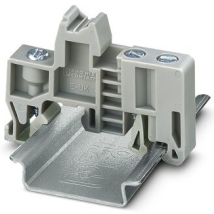


End clamp, width: 9.5 mm, color: gray

E/UK - End clamp

1201442

https://www.phoenixcontact.com/us/products/1201442



End clamp, material: PA, color: gray, Mounting on a DIN rail NS 32 or NS 35

E/UK 1 - End clamp

1201413

https://www.phoenixcontact.com/us/products/1201413

End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

PSBJ-URTK 6 FARBLOS - Female test connector

3026450

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

Female test connector, number of positions: 1, color: transparent

PSBJ-URTK 6 RD - Female test connector

3026719

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

Female test connector, number of positions: 1, color: red

PSBJ-URTK 6 BU - Female test connector

3026434

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

Female test connector, number of positions: 1, color: blue

PSBJ-URTK 6 YE - Female test connector

3026405

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

Female test connector, number of positions: 1, color: yellow

PSBJ-URTK 6 GN - Female test connector

3026418

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

Female test connector, number of positions: 1, color: green

PSBJ-URTK 6 VT - Female test connector

3026421

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

Female test connector, number of positions: 1, color: violet

PSBJ-URTK 6 GY - Female test connector

3026612

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

Female test connector, number of positions: 1, color: gray

PSBJ-URTK 6 BK - Female test connector

3026447

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

Female test connector, number of positions: 1, color: black

PSBJ-URTK 6 BN - Female test connector

3026971

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

Female test connector, number of positions: 1, color: brown

PSBJ-URTK 6 WH - Female test connector

3026448

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

Female test connector, number of positions: 1, color: white

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