PHŒNIX CONTACT

Feed-through terminal block - BTH 3,5-F - 3281118

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Feed-through terminal block, with flange on the left-hand side, connection method: Ring cable lug, Push-in connection, width: 12.7 mm, color: black, mounting: NS 35/7,5, NS 35/15, Direct mounting with flange

Your advantages

☑ Flexible use, thanks to DIN rail and direct mounting

☑ Reduction in logistics costs with the uniform CLIPLINE complete system accessories

☑ Maximum overview thanks to extensive marking and labeling of every terminal point

☑ Easy potential distribution with time-saving jumper system

☑ Easy and tool-free direct plug-in thanks to push-in multi-conductor connection

☑ Convenient ring cable lug connection thanks to the screw connection principle with spring-guided screw; maintenance-free with integrated screw locking

☑ Free choice of connection technology – meet requirements for internal and external wiring at the same time thanks to different connection methods in a single terminal block

☑ Safety for users thanks to integrated shock protection

RoHS

Key Commercial Data

Packing unit	50 pc
GTIN	4 055626 620572
GTIN	4055626620572

Technical data

General

Number of levels	1
Number of connections	3
Nominal cross section	4 mm²
Color	black
Insulating material	PC
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV

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Technical data

General

Degree of pollution	3
Overvoltage category	III
Insulating material group	IIIa
Maximum power dissipation for nominal condition	1.02 W
Ambient temperature (operation)	-60 °C ... 85 °C
Ambient temperature (storage/transport)	-25 °C ... 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C)
Permissible humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Connection method	Ring cable lug
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	32 A
Nominal current I_N	32 A
Nominal voltage U_N	690 V
Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	32 A (The maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal current I_N	32 A
Nominal voltage U_N	690 V
Open side panel	Yes

Dimensions

Width	12.7 mm
Length	46 mm
Pitch	10 mm
Height NS 35/7,5	38.2 mm
Height NS 35/15	45.7 mm

Connection data

Connection method	Ring cable lug
Connection in acc. with standard	IEC 60947-7-1
Stripping length	The stripping length depends on the specification provided by the cable lug manufacturer.
Cable lug connection according to standard	DIN 46234:1980-03
Min. cross section for cable lug connection	0.2 mm²
Max. cross section for cable lug connection	4 mm²
AWG min	24
AWG max	12
Hole diameter, min.	4.3 mm
Cable lug width, max.	8.8 mm
Bolt diameter	4 mm

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Technical data

Connection data

Screw thread	M4
Tightening torque, min	1.4 Nm
Tightening torque max	2 Nm
Connection in acc. with standard	JIS 8207-7-1
Cable lug connection according to standard	JIS 8207-7-1
Min. cross section for cable lug connection	0.5 mm²
Max. cross section for cable lug connection	3.5 mm²
Hole diameter, min.	4.3 mm
Cable lug width, max.	8.8 mm
Bolt diameter	4 mm
Screw thread	M4
Tightening torque, min	1.4 Nm
Tightening torque max	2 Nm
Nominal cross section	3.5 mm²
Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
Stripping length	10 mm ... 12 mm
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	4 mm²
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	12
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm²
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	12
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm²
Connection in acc. with standard	JIS 8207-7-1
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	2 mm²

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Technical data

Connection data

Conductor cross section flexible min.	0.5 mm²
Conductor cross section flexible max.	3.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	2 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	2 mm²
Connection cross sections directly pluggable	0.8 mm² 2 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	2 mm²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	2 mm²

Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
	JIS 8207-7-1
	IEC 60947-7-1
Flammability rating according to UL 94	V0

Environmental Product Compliance

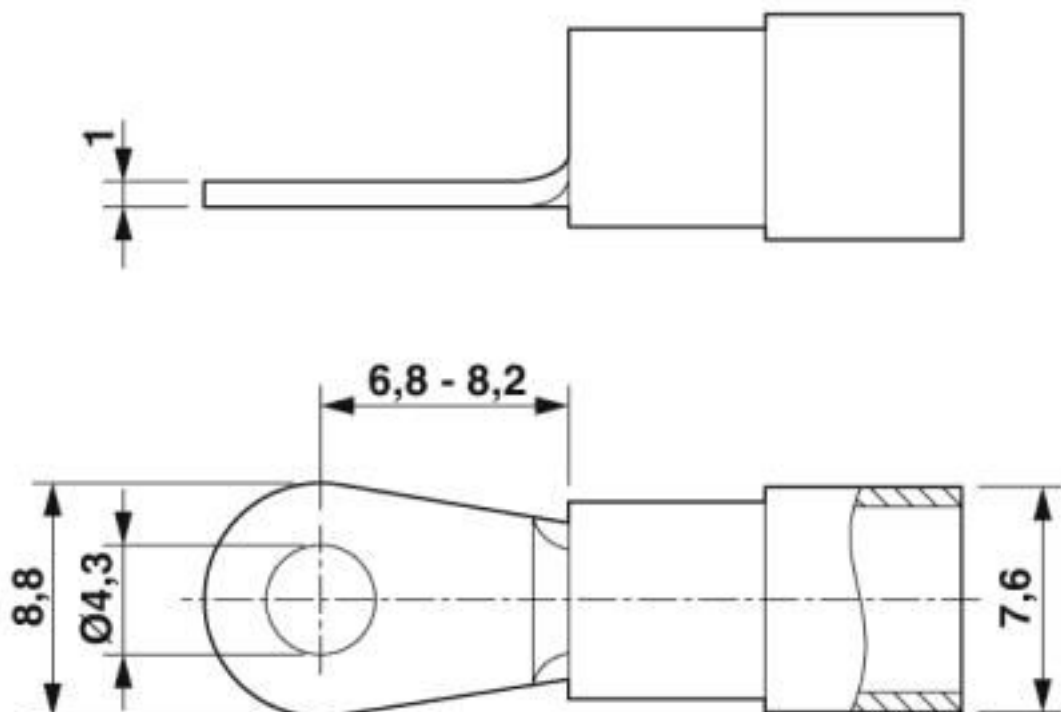|	
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Feed-through terminal block - BTH 3,5-F - 3281118

Dimensional drawing

Feed-through terminal block - BTH 3,5-F - 3281118

Dimensional drawing

6,8 - 8,2

8,8   Ø4,3   7,6
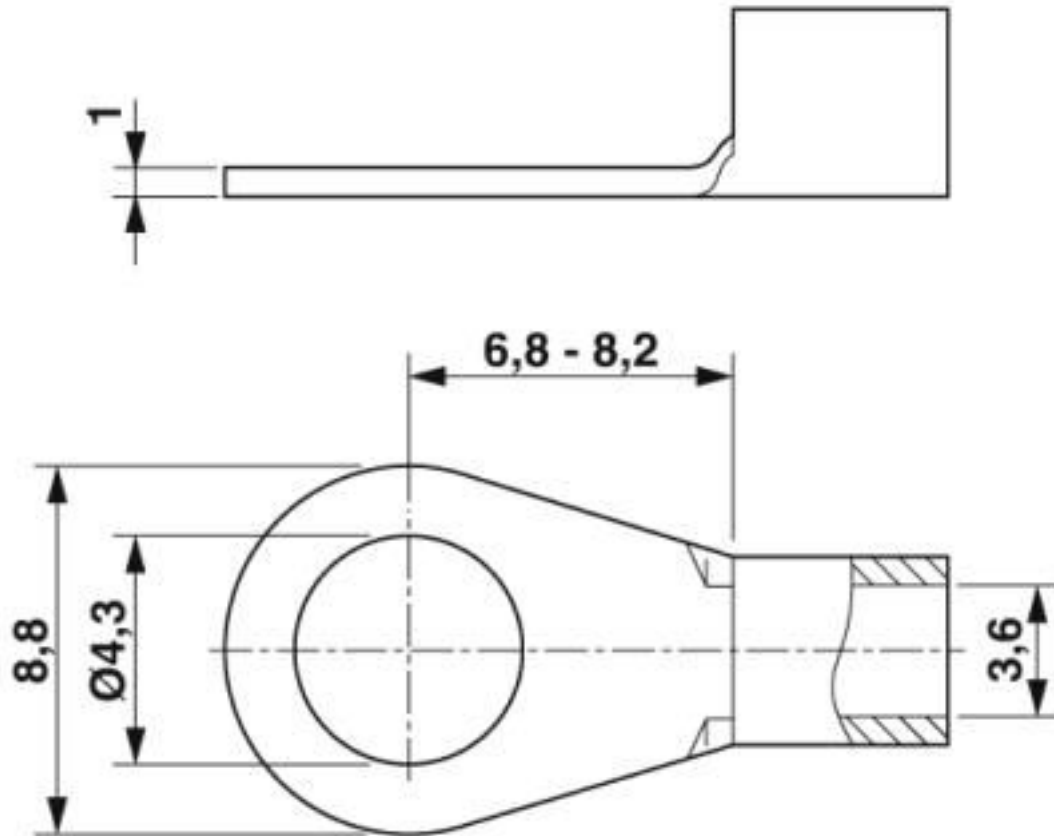
Circuit diagram

Classifications

eCl@ss

eCl@ss 10.0.1	27141120
eCl@ss 11.0	27141120
eCl@ss 4.0	27141121
eCl@ss 4.1	27141121
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141100
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 3.0	EC000897
ETIM 4.0	EC000897

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Classifications

ETIM

ETIM 5.0	EC000897
ETIM 6.0	EC000897
ETIM 7.0	EC000897

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410
UNSPSC 18.0	39121410
UNSPSC 19.0	39121410
UNSPSC 20.0	39121410
UNSPSC 21.0	39121410

Approvals

Approvals

Approvals

DNV GL / CSA / UL Recognized / EAC

Ex Approvals

Approval details

DNV GL		https://approvalfinder.dnvgl.com/	TAE00001S2

CSA		http://www.csagroup.org/services-industries/product-listing/	13631

	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	20 A	20 A
mm²/AWG/kcmil	26-12	26-12

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Approvals

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
	B	**C**	
Nominal voltage UN	600 V	600 V	
Nominal current IN	20 A	20 A	
mm²/AWG/kcmil	26-12	26-12	

EAC		RU C-DE.BL08.B.00644

Accessories

Accessories

Bridge

Wire bridge - FBSW 2-5/250MM - 3030172

Wire bridge, length: 250 mm, width: 5.1 mm, number of positions: 1, color: red/black

Wire bridge - FBSW 2-5/60MM - 3030170

Wire bridge, length: 60 mm, width: 5.1 mm, number of positions: 1, color: red/black

Wire bridge - FBSW 2-5/110MM - 3030171

Wire bridge, length: 110 mm, width: 5.1 mm, number of positions: 1, color: red/black

DIN rail

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Accessories

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733

DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681

DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119

DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 WH UNPERF 2000MM - 1204122

DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704

DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

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Accessories

DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421

DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434

DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762

DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

End cap - NS 35/ 7,5 CAP - 1206560

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

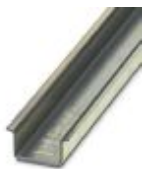DIN rail perforated - NS 35/15 PERF 2000MM - 1201730

DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

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Accessories

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714

DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602

DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM - 1204135

DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756

DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599

DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

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Accessories

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586

DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895

DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

End cap - NS 35/15 CAP - 1206573

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

End block

End clamp - E/NS 35 N BK - 0804271

End clamp, width: 9.5 mm, height: 32.8 mm, material: PA, length: 48.6 mm, color: black

End cover

End cover - D-BT 3,5-F - 1012627

End cover, with flange on the right-hand side, length: 46 mm, width: 22.4 mm, height: 30.7 mm, color: black

Insulating sleeve

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Accessories

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white

Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red

Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue

Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow

Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green

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Accessories

Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray

Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black

Jumper

Plug-in bridge - FBS 2-5 - 3030161

Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 9 mm, number of positions: 2, color: red

Plug-in bridge - FBS 2-5 BU - 3036877

Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: blue

Plug-in bridge - FBS 2-5 GY - 3038969

Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: gray

Feed-through terminal block - BTH 3,5-F - 3281118

Accessories

Plug-in bridge - FBS 2-5 GN - 3032143

Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: green

Plug-in bridge - FBSR 2-5 - 3033702

Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: red

Labeled terminal marker

Marker for terminal blocks - TMT 6 R CUS - 0824488

Marker for terminal blocks, can be ordered: by line, white, labeled according to customer specifications, mounting type: snap into universal marker groove, snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 6.35 x 6.15 mm

Partition plate

Spacer plate - DP PS-5 - 3036725

Spacer plate, length: 22.4 mm, width: 5.2 mm, height: 29 mm, number of positions: 1, color: red

Planning and marking software

Software - CLIP-PROJECT ADVANCED - 5146040

Multilingual software for convenient configuration of Phoenix Contact products on standard DIN rails.

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Accessories

Software - CLIP-PROJECT PROFESSIONAL - 5146053

Multilingual software for terminal strip configuration. A marking module enables the professional marking of markers and labels for identifying terminal blocks, conductors and cables, and devices.

Screwdriver tools

Philips screwdriver - SF-PH 2-100 - 1212560

Screwdriver, PH crosshead (lasered), uninsulated, size: PH 2 x 100, 2-component grip, with non-slip grip

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Philips screwdriver - SF-PH 2-100 S-VDE - 1212694

Screwdriver, crosshead PH (lasered), insulated, size: PH 2 x 100, 2-component handle, with non-slip grip

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Actuation tool - ST-BW - 1207608

Actuation tool, for all 2.5 mm² - 4.0 mm² spring-cages

Terminal marking

Marker for terminal blocks - TMT 6 R - 0816498

Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, perforated, mounting type: snap into universal marker groove, snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 6.35 x 6.15 mm, Number of individual labels: 16000

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Accessories

Marker for terminal blocks - TMT (EX9,5)R - 0828295

Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: snap into universal marker groove, snap into tall marker groove, for terminal block width: 50000 mm, lettering field size: 9.5 x 50000 mm, Number of individual labels: 1

Marker for terminal blocks - US-TM 100 - 0829255

Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into universal marker groove, lettering field size: 104 x 9.8 mm, Number of individual labels: 13

Test plug terminal block

Test plugs - PS-5 - 3030983

Test plugs, Modular test plug, color: red

Test plugs - PS-5/2,3MM RD - 3038723

Test plugs, color: red

Test plugs - MPS-MT - 0201744

Test plugs, with solder connection up to 1 mm² conductor cross section, color: gray

Test socket

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Accessories

Test adapter - PAI-4 - 3030925

Test adapter, for 4 mm test plug and terminal blocks with 4.2 mm ... 8.2 mm pitch, color: gray

Mouser Electronics

Authorized Distributor

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