

TransTechnical Solutions



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Multipole Connectors

PRODUCT COMBINATION CATALOGUE

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Company Overview



TransTechnical Solutions is an organisation based in Meadowdale, Johannesburg, South Africa. Strategically Johannesburg is vital to the South African and African markets, with International and Local companies relying on the Technical, Financial and Manufacturing infrastructure based in the Gauteng region. TransTechnical Solutions is a leading supplier to the industrial, mining, rail and governmental sectors of the South African and African markets, with a comprehensive product range, incorporating low, medium and high voltage equipment.



Our association includes major OEM manufacturers reaching as far as Europe, Asia and the America's, which enables TransTechnical Solutions to offer comprehensive solutions to our clients, based on the latest technology available worldwide. In our commitment to quality, TransTechnical Solutions and our partners comply with the most stringent national and international standards and approvals and utilise the latest technology and materials in our manufacturing processes.

TransTechnical Solutions' focus is based on two distinct sectors of the market, low voltage cable management, distribution and monitoring equipment, and medium voltage power transmission and distribution equipment.

Introduction to Multipole Connectors



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Heavy duty multipole connectors are specifically designed for use in especially tough environment conditions. They are used in the fields of automation technology, as well as mechanical, electrical and power engineering.

Industrial automation technology alludes to the control of mechanical hardware and its different procedures, thereby lessening the requirement for human intercession.

Multipole connectors allow for the simple and time-saving installation of machinery and equipment. The housing protects against mechanical impact and also prevents the entry of water and dust.

Connectors are available from 3 pin up to 216 pin, with current ratings from 10A to 2500A. Pins to be purchased separately from the 64 Pin range and upwards. (64, 72, 80, 108, 128, 144, 216).

Specifications:

VDE 0110 Concerning clearance and creepage distance

VDE 0627 Connectors and plug devices

Standard:

DIN EN 175 301-801

DIN EN 60 664-1

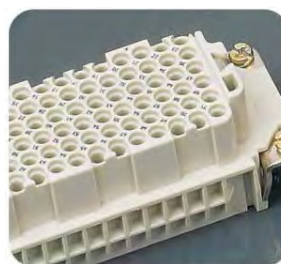
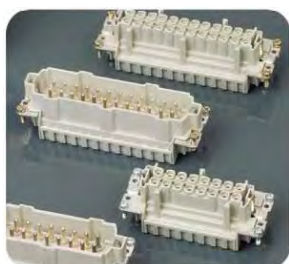
Din EN 61 984

Approvals:



All specifications subject to change.

Consult us for the latest design specifications.



THA SERIES 3 PIN (10A, 250V)



Specifications DIN EN 60 664-1
DIN EN 61 984

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Approvals



Inserts

Working Current: 10A

Working Voltage: 250V

Material: Polycarbonate

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated
Gold Plated options available

Terminal Types: Screw
Crimp and Spring options available

Wire Size: 0.14-2.5mm²/0.14-4.0mm²

Hoods

Material: Die Cast Zinc

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

3 Pin + Ground THA Combos

Combo1-THA3C1	Combo2-THA3C2	Combo3-THA3C3	Combo4-THA3C4	Combo5-THA3C5	Combo6-THA3C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
THA-MTS-M20	THA-MTG-M20	THA-MTS-M20	THA-MTG-M20	THA-MTS-M20	THA-MTG-M20
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THA-003-M	THA-003-M	THA-003-M	THA-003-M	THA-003-M	THA-003-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THA-003-F	THA-003-F	THA-003-F	THA-003-F	THA-003-F	THA-003-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
THA-MAG	THA-MAG	THA-MAGSV-M20	THA-MAGSV-M20	THA-MTGVB-M20	THA-MTGVB-M20

3 Pin + Ground THA Additional Parts

Part Number	Description	Part Number	Description
	THA-MAGS Hood Metal Bulkhead Mounting Side Entry		THA-KDB Cover Metal Protection for Hoods (Mounted Female Insert and Housing)
	THA-MAGSV-M16 Housing Metal Surface Mounting Side Entry M16 Thread		THA-KDTP Cover Thermoplastic Protection for Hoods (Mounted Male Insert and Hood)

Full thermoplastic range available - please enquire through our sales staff

THA SERIES 4 PIN (10A, 250V)



Specifications DIN EN 60 664-1
DIN EN 61 984

Approvals



Inserts

Working Current: 10A

Working Voltage: 250V

Material: Polycarbonate

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated
Gold Plated options available

Terminal Types: Screw
Crimp and Spring options available

Wire Size: 0.14-2.5mm²/0.14-4.0mm²

Hoods

Material: Die Cast Zinc

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

4 Pin + Ground THA Combos

Combo1-THA4C1	Combo2-THA4C2	Combo3-THA4C3	Combo4-THA4C4	Combo5-THA4C5	Combo6-THA4C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
THA-MTS-M20	THA-MTG-M20	THA-MTS-M20	THA-MTG-M20	THA-MTS-M20	THA-MTG-M20
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THA-004-M	THA-004-M	THA-004-M	THA-004-M	THA-004-M	THA-004-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THA-004-F	THA-004-F	THA-004-F	THA-004-F	THA-004-F	THA-004-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
THA-MAG	THA-MAG	THA-MAGSV-M20	THA-MAGSV-M20	THA-MTGVB-M20	THA-MTGVB-M20

4 Pin + Ground THA Additional Parts

Part Number	Description	Part Number	Description
THA-MAGS	Hood Metal Bulkhead Mounting Side Entry	THA-KDB	Cover Metal Protection for Hoods (Mounted Female Insert and Housing)
THA-MAGSV-M16	Housing Metal Surface Mounting Side Entry M16 Thread	THA-KDTP	Cover Thermoplastic Protection for Hoods (Mounted Male Insert and Hood)

Full thermoplastic range available - please enquire through our sales staff

THD SERIES 15 PIN (10A, 250V)



Specifications DIN EN 175 301-801
DIN EN 61 984

Approvals



Inserts

Working Current:	10A
Working Voltage:	250V
Material:	Polycarbonate
Temperature Range:	-40°C to 125°C

Contacts

Material:	Copper Alloy
Surface:	Hard Silver-Plated Gold Plated options available
Terminal Types:	Crimp Rolled option available
Wire Size:	0.14-2.5mm ²

Hoods

Material:	Die Cast Aluminium
Surface Locking Element:	Steel Zinc-Plated Stainless Steel available
Temperature Range:	40°C to 125°C
Degree of Protection:	IP65 to DIN40 050

15 Pin + Ground THD Combos

(Crimp contacts sold separately - please see page 20)

Combo1-THD15C1	Combo2-THD15C2	Combo3-THD15C3	Combo4-THD15C4	Combo5-THD15C5	Combo6-THD15C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
TH10A-TS-M20	TH10A-TG-M20	TH10A-TS-M20	TH10A-TG-M20	TH10A-TS-M20	TH10A-TG-M20
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THD-015-M	THD-015-M	THD-015-M	THD-015-M	THD-015-M	THD-015-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THD-015-F	THD-015-F	THD-015-F	THD-015-F	THD-015-F	THD-015-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
TH10A-AG	TH10A-AG	TH10A-SGR-M20	TH10A-SGR-M20	TH10A-TBF-M20	TH10A-TBF-M20

15 Pin + Ground THD Additional Parts

Part Number	Description	Part Number	Description
	TH10A-TS-M25 Hood Metal 2 Lever Side Entry M25		TH10A-TBF-M25 Hood Metal 2 Lever Cable to Cable M25 Thread
	TH10A-TG-M25 Hood Metal 2 Lever Top Entry M25		TH10A-AD Housing Metal 2 Lever Bulkhead Mounted with Protection cover
	TH10A-SGR-M25 Housing Metal 2 Lever Surface Mount Side Entry M25 Thread		TH10A-KDTP Cover Metal 2 Lever Protection for Hoods

THD SERIES 40 PIN (10A, 250V)



Specifications DIN EN 175 301-801
DIN EN 61 984

Approvals



Inserts

Working Current: 10A

Working Voltage: 250V

Material: Polycarbonate

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated
Gold Plated options available

Terminal Types: Crimp
Rolled option available

Wire Size: 0.14-2.5mm²

Hoods

Material: Die Cast Aluminium

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

40 Pin + Ground THD Combos

(Crimp contacts sold separately - please see page 20)

Combo1-THD40C1	Combo2-THD40C2	Combo3-THD40C3	Combo4-THD40C4	Combo5-THD40C5	Combo6-THD40C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
TH16B-TS-M25	TH16B-TG-M25	TH16B-TS-M25	TH16B-TG-M25	TH16B-TS-M25	TH16B-TG-M25
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THD-040-M	THD-040-M	THD-040-M	THD-040-M	THD-040-M	THD-040-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THD-040-F	THD-040-F	THD-040-F	THD-040-F	THD-040-F	THD-040-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
TH16B-AG	TH16B-AG	TH16B-SGR-M25	TH16B-SGR-M25	TH16B-TBF-M25	TH16B-TBF-M25

40 Pin + Ground THD Additional Parts

Part Number	Description	Part Number	Description
TH16B-TS-M32	Hood Metal 2 Lever Side Entry M32	TH16B-KDTP	Cover Metal 2 Lever Protection for Hoods
TH16B-TG-M32	Hood Metal 2 Lever Top Entry M32	TH16B-KDBP	Cover Metal 2 Lever Protection for Housings
TH16B-TBF-M32	Hood Metal 2 Lever Cable to Cable M32 Thread		

THD SERIES 64 PIN (10A, 250V)



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Specifications DIN EN 175 301-801
DIN EN 61 984

Approvals



Inserts

Working Current: 10A

Working Voltage: 250V

Material: Polycarbonate

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated
Gold Plated options available

Terminal Types: Crimp
Rolled option available

Wire Size: 0.14-2.5mm²

Hoods

Material: Die Cast Aluminium

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

64 Pin + Ground THD Combos

(Crimp contacts sold separately - please see page 20)

Combo1-THD64C1	Combo2-THD64C2	Combo3-THD64C3	Combo4-THD64C4	Combo5-THD64C5	Combo6-THD64C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
TH24B-TS-M25	TH24B-TG-M25	TH24B-TS-M25	TH24B-TG-M25	TH24B-TS-M25	TH24B-TG-M25
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THD-064-M	THD-064-M	THD-064-M	THD-064-M	THD-064-M	THD-064-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THD-064-F	THD-064-F	THD-064-F	THD-064-F	THD-064-F	THD-064-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
TH24B-AG	TH24B-AG	TH24B-SGR-M25	TH24B-SGR-M25	TH24B-TBF-M25	TH24B-TBF-M25

64 Pin + Ground THD Additional Parts

Part Number	Description	Part Number	Description
TH24B-TS-M32	Hood Metal 2 Lever Side Entry M32	TH24B-KDT	Cover Metal 2 Lever Protection for Hoods
TH24B-TG-M32	Hood Metal 2 Lever Top Entry M32	TH24B-KDB	Cover Metal 2 Lever Protection for Housings
TH24B-TBF-M32	Hood Metal 2 Lever Cable to Cable M32 Thread		

THDD SERIES 42 PIN (10A, 250V)



Specifications DIN EN 60 664-1
DIN EN 61 984

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Approvals



Inserts

Working Current: 10A

Working Voltage: 250V

Material: Polyamide

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated
Gold Plated options available

Terminal Types: Crimp
Rolled option available

Wire Size: 0.14-2.5mm²

Hoods

Material: Die Cast Aluminium

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

42 Pin + Ground THDD Combos

(Crimp contacts sold separately - please see page 20)

Combo1-THDD42C1	Combo2-THDD42C2	Combo3-THDD42C3	Combo4-THDD42C4	Combo5-THDD42C5	Combo6-THDD42C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
TH10B-TS-M20	TH10B-TG-M20	TH10B-TS-M20	TH10B-TG-M20	TH10B-TS-M20	TH10B-TG-M20
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THDD-042-M	THDD-042-M	THDD-042-M	THDD-042-M	THDD-042-M	THDD-042-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THDD-042-F	THDD-042-F	THDD-042-F	THDD-042-F	THDD-042-F	THDD-042-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
TH10B-AG	TH10B-AG	TH10B-SGR-M20	TH10B-SGR-M20	TH10B-TBF-M20	TH10B-TBF-M20

42 Pin + Ground THDD Additional Parts

Part Number	Description	Part Number	Description
TH10B-TS-M25	Hood Metal 2 Lever Side Entry M25	TH10B-SGR-M25	Housing Metal 2 Lever Surface Mount Side Entry M25 Thread
TH10B-TG-M25	Hood Metal 2 Lever Top Entry M25	TH10B-KDTP	Cover Metal 2 Lever Protection for Hoods
TH10B-TBF-M25	Hood Metal 2 Lever Cable to Cable M25 Thread	TH10B-KDBP	Cover Metal 2 Lever Protection for Housings

THDD SERIES 72 PIN (10A, 250V)



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Specifications DIN EN 60 664-1
DIN EN 61 984

Approvals



Inserts

Working Current: 10A

Working Voltage: 250V

Material: Polyamide

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated
Gold Plated options available

Terminal Types: Crimp
Rolled option available

Wire Size: 0.14-2.5mm²

Hoods

Material: Die Cast Aluminium

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

72 Pin + Ground THDD Combos

(Crimp contacts sold separately - please see page 20)

Combo1-THDD72C1	Combo2-THDD72C2	Combo3-THDD72C3	Combo4-THDD72C4	Combo5-THDD72C5	Combo6-THDD72C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
TH16B-TS-M25	TH16B-TG-M25	TH16B-TS-M25	TH16B-TG-M25	TH16B-TS-M25	TH16B-TG-M25
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THDD-072-M	THDD-072-M	THDD-072-M	THDD-072-M	THDD-072-M	THDD-072-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THDD-072-F	THDD-072-F	THDD-072-F	THDD-072-F	THDD-072-F	THDD-072-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
TH16B-AG	TH16B-AG	TH16B-SGR-M25	TH16B-SGR-M25	TH16B-TBF-M25	TH16B-TBF-M25

72 Pin + Ground THDD Additional Parts

Part Number	Description	Part Number	Description
TH16B-TS-M32	Hood Metal 2 Lever Side Entry M32	TH16B-KDTP	Cover Metal 2 Lever Protection for Hoods
TH16B-TG-M32	Hood Metal 2 Lever Top Entry M32	TH16B-KDBP	Cover Metal 2 Lever Protection for Housings
TH16B-TBF-M32	Hood Metal 2 Lever Cable to Cable M32 Thread		

THDD SERIES 108 PIN (10A, 250V)



Specifications DIN EN 60 664-1
DIN EN 61 984

Approvals



Inserts

Working Current:	10A
Working Voltage:	250V
Material:	Polyamide
Temperature Range:	-40°C to 125°C

Contacts

Material:	Copper Alloy
Surface:	Hard Silver-Plated Gold Plated options available
Terminal Types:	Crimp Rolled option available
Wire Size:	0.14-2.5mm ²

Hoods

Material:	Die Cast Aluminium
Surface Locking Element:	Steel Zinc-Plated Stainless Steel available
Temperature Range:	40°C to 125°C
Degree of Protection:	IP65 to DIN40 050

108 Pin + Ground THDD Combos

(Crimp contacts sold separately - please see page 20)

Combo1-THDD108C1	Combo2-THDD108C2	Combo3-THDD108C3	Combo4-THDD108C4	Combo5-THDD108C5	Combo6-THDD108C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
TH24B-TS-M25	TH24B-TG-M25	TH24B-TS-M25	TH24B-TG-M25	TH24B-TS-M25	TH24B-TG-M25
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THDD-108-M	THDD-108-M	THDD-108-M	THDD-108-M	THDD-108-M	THDD-108-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THDD-108-F	THDD-108-F	THDD-108-F	THDD-108-F	THDD-108-F	THDD-108-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
TH24B-AG	TH24B-AG	TH24B-SGR-M25	TH24B-SGR-M25	TH24B-TBF-M25	TH24B-TBF-M25

108 Pin + Ground THDD Additional Parts

Part Number	Description	Part Number	Description
TH24B-TS-M32	Hood Metal 2 Lever Side Entry M32	TH24B-KDTP	Cover Metal 2 Lever Protection for Hoods
TH24B-TG-M32	Hood Metal 2 Lever Top Entry M32	TH24B-KDBP	Cover Metal 2 Lever Protection for Housings
TH24B-TBF-M32	Hood Metal 2 Lever Cable to Cable M32 Thread		

THE SERIES 6 PIN (16A, 500V)



Specifications DIN EN 60 664-1
DIN EN 61 984

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Approvals



Inserts

Working Current: 16A

Working Voltage: 500V

Material: Polycarbonate

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated
Gold Plated options available

Terminal Types: Screw
Crimp and Spring options available

Wire Size: 0.14-4.0mm²

Hoods

Material: Die Cast Aluminium

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

6 Pin + Ground THE Combos

Combo1-THE6C1	Combo2-THE6C2	Combo3-THE6C3	Combo4-THE6C4	Combo5-THE6C5	Combo6-THE6C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
TH6B-TS-M20	TH6B-TG-M20	TH6B-TS-M20	TH6B-TG-M20	TH6B-TS-M20	TH6B-TG-M20
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THE-006-M	THE-006-M	THE-006-M	THE-006-M	THE-006-M	THE-006-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THE-006-F	THE-006-F	THE-006-F	THE-006-F	THE-006-F	THE-006-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
TH6B-AG	TH6B-AG	TH6B-SGR-M20	TH6B-SGR-M20	TH6B-TBF-M20	TH6B-TBF-M20

6 Pin + Ground THE Additional Parts

Part Number	Description	Part Number	Description
H6B-TS-M25	Hood Metal Side Entry M25	H6B-AD	Housing Metal Bulkhead Mounted with Cover
H6B-TG-M25	Hood Metal Top Entry M25	H6B-SGR-M25	Housing Metal Surface Mounted Side Entry M25 Thread
TH6B-TBF-M25	Hood Metal Cable to Cable M25 Thread	H6B-KDTP	Cover Metal Protection for Hoods

THE SERIES 10 PIN (16A, 500V)



Specifications DIN EN 60 664-1
DIN EN 61 984

Approvals



Inserts

Working Current: 16A

Working Voltage: 500V

Material: Polycarbonate

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated
Gold Plated options available

Terminal Types: Screw
Crimp and Spring options available

Wire Size: 0.14-4.0mm²

Hoods

Material: Die Cast Aluminium

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

10 Pin + Ground THE Combos

Combo1-THE10C1	Combo2-THE10C2	Combo3-THE10C3	Combo4-THE10C4	Combo5-THE10C5	Combo6-THE10C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
TH10B-TS-M20	TH10B-TG-M20	TH10B-TS-M20	TH10B-TG-M20	TH10B-TS-M20	TH10B-TG-M20
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THE-010-M	THE-010-M	THE-010-M	THE-010-M	THE-010-M	THE-010-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THE-010-F	THE-010-F	THE-010-F	THE-010-F	THE-010-F	THE-010-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
TH10B-AG	TH10B-AG	TH10B-SGR-M20	TH10B-SGR-M20	TH10B-TBF-M20	TH10B-TBF-M20

10 Pin + Ground THE Additional Parts

Part Number	Description	Part Number	Description
TH10B-TS-M25	Hood Metal 2 Lever Side Entry M25	TH10B-SGR-M25	Housing Metal 2 Lever Surface Mount Side Entry M25 Thread
TH10B-TG-M25	Hood Metal 2 Lever Top Entry M25	TH10B-KDTP	Cover Metal 2 Lever Protection for Hoods
TH10B-TBF-M25	Hood Metal 2 Lever Cable to Cable M25 Thread	TH10B-KDBP	Cover Metal 2 Lever Protection for Housings

THE SERIES 16 PIN (16A, 500V)



Specifications DIN EN 60 664-1
DIN EN 61 984

ttsafrica.com

Approvals



Inserts

Working Current: 16A

Working Voltage: 500V

Material: Polycarbonate

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated
Gold Plated options available

Terminal Types: Screw
Crimp and Spring options available

Wire Size: 0.14-4.0mm²

Hoods

Material: Die Cast Aluminium

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

16 Pin + Ground THE Combos

Combo1-THE16C1	Combo2-THE16C2	Combo3-THE16C3	Combo4-THE16C4	Combo5-THE16C5	Combo6-THE16C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
TH16B-TS-M25	TH16B-TG-M25	TH16B-TS-M25	TH16B-TG-M25	TH16B-TS-M25	TH16B-TG-M25
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THE-016-M	THE-016-M	THE-016-M	THE-016-M	THE-016-M	THE-016-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THE-016-F	THE-016-F	THE-016-F	THE-016-F	THE-016-F	THE-016-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
TH16B-AG	TH16B-AG	TH16B-SGR-M25	TH16B-SGR-M25	TH16B-TBF-M25	TH16B-TBF-M25

16 Pin + Ground THE Additional Parts

Part Number	Description	Part Number	Description
TH16B-TS-M32	Hood Metal 2 Lever Side Entry M32	TH16B-KDTP	Cover Metal 2 Lever Protection for Hoods
TH16B-TG-M32	Hood Metal 2 Lever Top Entry M32	TH16B-KDBP	Cover Metal 2 Lever Protection for Housings
TH16B-TBF-M32	Hood Metal 2 Lever Cable to Cable M32 Thread		

THE SERIES 24 PIN (16A, 500V)



Specifications DIN EN 60 664-1
DIN EN 61 984

ttsafrica.com

Approvals



Inserts

Working Current: 16A

Working Voltage: 500V

Material: Polycarbonate

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated
Gold Plated options available

Terminal Types: Screw
Crimp and Spring options available

Wire Size: 0.14-4.0mm²

Hoods

Material: Die Cast Aluminium

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

24 Pin + Ground THE Combos

Combo1-THE24C1	Combo2-THE24C2	Combo3-THE24C3	Combo4-THE24C4	Combo5-THE24C5	Combo6-THE24C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
TH24B-TS-M25	TH24B-TG-M25	TH24B-TS-M25	TH24B-TG-M25	TH24B-TS-M25	TH24B-TG-M25
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THE-024-M	THE-024-M	THE-024-M	THE-024-M	THE-024-M	THE-024-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THE-024-F	THE-024-F	THE-024-F	THE-024-F	THE-024-F	THE-024-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
TH24B-AG	TH24B-AG	TH24B-SGR-M25	TH24B-SGR-M25	TH24B-TBF-M25	TH24B-TBF-M25

24 Pin + Ground THE Additional Parts

Part Number	Description	Part Number	Description
TH24B-TS-M32	Hood Metal 2 Lever Side Entry M32	TH24B-KDTP	Cover Metal 2 Lever Protection for Hoods
TH24B-TG-M32	Hood Metal 2 Lever Top Entry M32	TH24B-KDBP	Cover Metal 2 Lever Protection for Housings
TH24B-TBF-M32	Hood Metal 2 Lever Cable to Cable M32 Thread		

THE SERIES 32 (16 x 2) PIN (16A, 500V)



Specifications DIN EN 60 664-1
DIN EN 61 984

ttsafrica.com

Approvals



Inserts

Working Current: 16A

Working Voltage: 500V

Material: Polycarbonate

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated
Gold Plated options available

Terminal Types: Screw
Crimp and Spring options available

Wire Size: 0.14-4.0mm²

Hoods

























Material: Die Cast Aluminium

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

32 (2 x 16) Pin + Ground THE Combos

Combo1-THE32C1	Combo2-THE32C2	Combo3-THE32C3	Combo4-THE32C4	Combo5-THE32C5	Combo6-THE32C6
Side entry hood  TH32B-TS-M32	Top entry hood  TH32B-TG-M25	Side entry hood  TH32B-TS-M32	Top entry hood  TH32B-TG-M25	Side entry hood  TH32B-TS-M32	Top entry hood  TH32B-TG-M25
Male insert  THE-016-M (1-16) THE-016-M (17-32)	Male insert  THE-016-M (1-16) THE-016-M (17-32)	Male insert  THE-016-M (1-16) THE-016-M (17-32)	Male insert  THE-016-M (1-16) THE-016-M (17-32)	Male insert  THE-016-M (1-16) THE-016-M (17-32)	Male insert  THE-016-M (1-16) THE-016-M (17-32)
Female insert  THE-016-F (1-16) THE-016-F (17-32)	Female insert  THE-016-F (1-16) THE-016-F (17-32)	Female insert  THE-016-F (1-16) THE-016-F (17-32)	Female insert  THE-016-F (1-16) THE-016-F (17-32)	Female insert  THE-016-F (1-16) THE-016-F (17-32)	Female insert  THE-016-F (1-16) THE-016-F (17-32)
Panel mount base  TH32B-AG	Panel mount base  TH32B-AG	Surface mount base  TH32B-SGR-M32	Surface mount base  TH32B-SGR-M32	Cable Coupler  TH32B-TBF-M32	Cable Coupler  TH32B-TBF-M32

32 (2 x 16) Pin + Ground THE Additional Parts

Part Number	Description	Part Number	Description
 TH32B-TS-M40	Hood Metal 2 Lever Side Entry M40	 TH32B-TG-M40	Hood Metal 2 Lever Top Entry M40
 TH32B-TS-M50	Hood Metal 2 Lever Side Entry M50	 TH32B-TG-M50	Hood Metal 2 Lever Top Entry M50
 TH32B-TG-M32	Hood Metal 2 Lever Top Entry M32	 TH32B-KDBP	Cover Metal 2 Lever Protection for Hoods

THE SERIES 48 (24 x 2) PIN (16A, 500V)



Specifications DIN EN 60 664-1
DIN EN 61 984

ttsafrica.com

Approvals



Inserts

Working Current: 16A

Working Voltage: 500V

Material: Polycarbonate

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated
Gold Plated options available

Terminal Types: Screw
Crimp and Spring options available

Wire Size: 0.14-4.0mm²

Hoods

















Material: Die Cast Aluminium

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

48 (2 x 24) Pin + Ground THE Combos

Combo1-THE48C1	Combo2-THE48C2	Combo3-THE48C3	Combo4-THE48C4
Side entry hood  TH48B-TS-M32	Top entry hood  TH48B-TG-M32	Side entry hood  TH48B-TS-M32	Top entry hood  TH48B-TG-M32
Male insert  THE-024-M (1-24) THE-024-M (25-48)	Male insert  THE-024-M (1-24) THE-024-M (25-48)	Male insert  THE-024-M (1-24) THE-024-M (25-48)	Male insert  THE-024-M (1-24) THE-024-M (25-48)
Female insert  THE-024-F (1-24) THE-024-F (25-48)	Female insert  THE-024-F (1-24) THE-024-F (25-48)	Female insert  THE-024-F (1-24) THE-024-F (25-48)	Female insert  THE-024-F (1-24) THE-024-F (25-48)
Panel mount base  TH48B-AG	Panel mount base  TH48B-AG	Surface mount base  TH48B-SGR-M32	Surface mount base  TH48B-SGR-M32

48 (2 x 24) Pin + Ground THE Additional Parts

Part Number	Description	Part Number	Description
 TH48B-TS-M40	Hood Metal 2 Lever Side Entry M40	 TH48B-TG-M50	Hood Metal 2 Lever Top Entry M50
 TH48B-TS-M50	Hood Metal 2 Lever Side Entry M50	 TH48B-TG-M63	Hood Metal 2 Lever Top Entry M63
 TH48B-TS-M63	Hood Metal 2 Lever Side Entry M63	 TH48B-SGR-M40	Housing Metal 2 Lever Surface Mount Side Entry M40 Thread
 TH48B-TG-M40	Hood Metal 2 Lever Top Entry M40	 TH48B-SGR-M50	Housing Metal 2 Lever Surface Mount Side Entry M50 Thread

THK SERIES 4 PIN (80A, 690V)



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Specifications DIN EN 60 664-1
DIN EN 61 984

Approvals



Inserts

Working Current: 80A/16A

Working Voltage: 690V/400V

Material: Polycarbonate

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated
Gold Plated options available

Terminal Types: Screw

Wire Size: 1.5-16mm²/0.5-2.5mm²

Hoods

Material: Die Cast Aluminium

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

4 Pin + Ground THK Combos

Combo1-THK4C1	Combo2-THK4C2	Combo3-THK4C3	Combo4-THK4C4	Combo5-THK4C5	Combo6-THK4C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
TH16B-TS-M25	TH1B-TG-M25	TH16B-TS-M25	TH1B-TG-M25	TH16B-TS-M25	TH1B-TG-M25
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THK4/0-004-M	THK4/0-004-M	THK4/0-004-M	THK4/0-004-M	THK4/0-004-M	THK4/0-004-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THK4/0-004-F	THK4/0-004-F	THK4/0-004-F	THK4/0-004-F	THK4/0-004-F	THK4/0-004-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
TH16B-AG	TH16B-AG	TH16B-SGR-M25	TH16B-SGR-M25	TH16B-TBF-M25	TH16B-TBF-M25

4 Pin + Ground THK Additional Parts

Part Number	Description	Part Number	Description
THK4/2-006-M	Insert 4/2 Pin + Ground Screw Terminal Male	TH16B-TBF-M32	Hood Metal 2 Lever Cable to Cable M32 Thread
THK4/2-006-F	Insert 4/2 Pin + Ground Screw Terminal Female	TH16B-KDTP	Cover Metal 2 Lever Protection for Hoods
TH16B-TS-M32	Hood Metal 2 Lever Side Entry M32	TH16B-KDBP	Cover Metal 2 Lever Protection for Housings
TH16B-TG-M32	Hood Metal 2 Lever Top Entry M32		

THSB SERIES 6 PIN (35A, 690V)



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Specifications DIN EN 60 664-1
DIN EN 61 984

Approvals



Inserts

Working Current: 35A

Working Voltage: 690V

Material: Polyamide

Temperature Range: -40°C to 125°C

Contacts

Material: Copper Alloy

Surface: Hard Silver-Plated

Terminal Types: Screw

Wire Size: 6mm²

Hoods

Material: Die Cast Aluminium

Surface Locking Element: Steel Zinc-Plated
Stainless Steel available

Temperature Range: 40°C to 125°C

Degree of Protection: IP65 to DIN40 050

6 Pin + Ground THSB Combos

Combo1-THSB6C1	Combo2-THSB6C2	Combo3-THSB6C3	Combo4-THSB6C4	Combo5-THSB6C5	Combo6-THSB6C6
Side entry hood	Top entry hood	Side entry hood	Top entry hood	Side entry hood	Top entry hood
TH16B-TS-M25	TH16B-TG-M25	TH16B-TS-M25	TH16B-TG-M25	TH16B-TS-M25	TH16B-TG-M25
Male insert	Male insert	Male insert	Male insert	Male insert	Male insert
THSB-006-M	THSB-006-M	THSB-006-M	THSB-006-M	THSB-006-M	THSB-006-M
Female insert	Female insert	Female insert	Female insert	Female insert	Female insert
THSB-006-F	THSB-006-F	THSB-006-F	THSB-006-F	THSB-006-F	THSB-006-F
Panel mount base	Panel mount base	Surface mount base	Surface mount base	Cable Coupler	Cable Coupler
TH16B-AG	TH16B-AG	TH16B-SGR-M25	TH16B-SGR-M25	TH16B-TBF-M25	TH16B-TBF-M25

6 Pin + Ground THSB Additional Parts

Part Number	Description	Part Number	Description
TH16B-TS-M32	Hood Metal 2 Lever Side Entry M32	TH16B-KDTP	Cover Metal 2 Lever Protection for Hoods
TH16B-TG-M32	Hood Metal 2 Lever Top Entry M32	TH16B-KDBP	Cover Metal 2 Lever Protection for Housings
TH16B-TBF-M32	Hood Metal 2 Lever Cable to Cable M32 Thread		

CRIMP CONTACTS



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Specifications DIN EN 60 664-1
DIN EN 61 984

Approvals

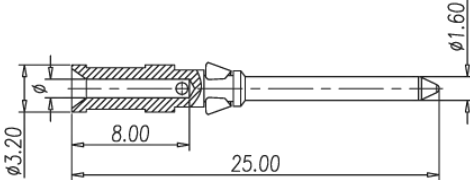


10A Contact

Technical data

Material:	Copper	TCDM Male	
Contact resistance:	≤3mΩ		
Terminal type:	Crimp connection	TCDF Female	

For use with THD 15-pin (pg 6), THD 40-pin (pg 7), THD 64-pin (pg 8), THDD 42-pin (pg 9), THDD 72-pin (pg 10), THDD 108-pin (pg 11) series inserts

10A Male Crimp Contacts	Wire gauge	Stripping length	Crimp contacts Silver-plated Type	Crimp contacts Gold-plated Type	
	0.14mm ²	AWG26 - 22	8.0mm	TCDM-0.14	TDDM-0.14
	0.5mm ²	AWG20	8.0mm	TCDM-0.5	TDDM-0.5
	0.75mm ²	AWG18	8.0mm	TCDM-0.75	TDDM-0.75
	1.0mm ²	AWG18	8.0mm	TCDM-1.0	TDDM-1.0
	1.5mm ²	AWG16	8.0mm	TCDM-1.5	TDDM-1.5
	2.5mm ²	AWG14	6.0mm	TCDM-2.5	TDDM-2.5

For use with THD 15-pin (pg 6), THD 40-pin (pg 7), THD 64-pin (pg 8), THDD 42-pin (pg 9), THDD 72-pin (pg 10), THDD 108-pin (pg 11) series inserts

10A Female Crimp Contacts	Wire gauge	Stripping length	Crimp contacts Silver-plated Type	Crimp contacts Gold-plated Type	
	0.14mm ²	AWG26 - 22	8.0mm	TCDF-0.14	TDDF-0.14
	0.5mm ²	AWG20	8.0mm	TCDF-0.5	TDDF-0.5
	0.75mm ²	AWG18	8.0mm	TCDF-0.75	TDDF-0.75
	1.0mm ²	AWG18	8.0mm	TCDF-1.0	TDDF-1.0
	1.5mm ²	AWG16	8.0mm	TCDF-1.5	TDDF-1.5
	2.5mm ²	AWG14	6.0mm	TCDF-2.5	TDDF-2.5

TOOLS AND ACCESSORIES



ttsafrica.com

Specifications DIN EN 60 664-1
 DIN EN 61 984

Approvals



Crimping Tools

Crimping Tool

Wire range: 0.5 - 4.0mm²
 Used for HD, HDD, HEE contacts



Type: TCRIMPBOX-0.5/4.0

Crimping Tool

Wire range: 4.0 - 10.0mm²
 Used for 40A contacts



Type: TCRIMPBOX-4.0/10.0

Removal Tools

Removal Tool

Used for THEE series



Type: TREMOV-THEE

Removal Tool

Used for THEEE series



Type: TREMOV-THEEE

Removal Tool

Used for THD/THDD series



Type: TREMOV-THD

Removal Tool

Used for TCMM/TCFM series



Type: TREMOV-TMM

Axial Screw and Crimping Tools

M3 Screwdriver

Used for THA/THE inserts



Type: TSCREWD-M3

Tool

Used for 100A inserts



Type: THEXA-D1

Tool

Used for 40A inserts



Type: THEXA-D2

Crimping Tool

Wire range: 10.0 - 120.0mm²
 Used for 200A contacts



Type: TCRIMPBOX-10/120

OTHER PRODUCTS IN OUR RANGE

Catalogues available on request



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Metallic Flexible Systems:
 A range of 3 different conduit types provide a solution for liquid resistant specifications with a further 3 conduit options in liquid tight covered steel conduit for especially demanding environments. Conduit ranges are offered in nominal conduit size from 3mm for CCTV/roller shutter doors and for protecting fibre optics cables right up to 75mm for larger cable carrying capacity.

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 Our conduit range is available in many different materials, ranging from lightweight to heavyweight with nominal conduit sizes from 10mm right up to the jumbo-size of 106mm. For more demanding applications there is a wide-ranging high specification series of conduit with enhanced low fire hazard properties, EMI screening and incorporating high fatigue life. Overbraided options are available for use in abrasive environments.

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 TTS are the leading solutions provider to protect your critical power and data cables in hygienic environments from damage caused by mechanical, electrical or environmental influences. This new range of hygienic flexible conduits offers a smooth, easy to clean surface. With the additional stainless steel hygienic fitting it creates a complete system ideal for food & beverage, machinery & OEMS, healthcare and pharmaceutical applications.

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 The Harnessflex® system is suitable for use on vehicles in a wide variety of markets and geographical locations. We provide harness solutions for agricultural vehicles, construction vehicles, engine manufacturers, harness manufacturers, truck and bus manufacturers, tanker and trailer manufacturers, specialist vehicle components and military vehicles.

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 Harnessflex have created it's new range of high temperature conduits and fittings, designed to operate at temperatures up to 200°C. Created from the outset for use as a full system, the range is made from specialist co-polyester and polyamide respectively, that provide long-term heat, age, tensile, and impact strength to protect vital cable connections.

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- Manufactured from stabilized polyolefin, Halogen Free non-lined 2:1 thin wall tubing.
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Medium Wall Tubing:

- Seals and protects cable splices and terminations
- Adhesive lining provides complete environmental protection and insulation.

Heavy Wall Tubing:

- When it comes to moisture proofing connections and terminations, heat shrinkable tubing, boots and end caps offer the greatest performance.
- Manufactured of cross linked polyolefin.

Heat Shrinkable End Caps:
 Heat shrinkable end caps are produced from cross linked polyolefin with an inner coating of hot melt adhesive.

- Shrink Ratio - 2:1

Heat Shrinkable Breakouts:
 Heat shrinkable breakouts are produced from cross linked polyolefin with an inner coating of hot melt adhesive.

Breakouts are suitable for termination of PVC and XLPE cable providing electrical insulation, sealing, water-proofing and resistance to chemical corrosion and abrasion.

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Rigid Conduit Systems

TTS supplies one of the broadest variety of rigid fittings and accessories which includes large, small and circle boxes, box covers, hooks, couplings, elbows, tees, saddles and more .

All products satisfy a uniform standard of quality and safety :

- Manufactured in accordance to Sans 61316 as well as BS31-BS4568-BS6053-BS6053-BS6099(I.E.C 614) needed.
- Each 4-metre/ 3.75-metre length of conduit is screwed both ends and comes complete with one solid coupling.
- The conduit finishes include hot dipped galvanised inside and outside, black enamelled inside and outside.

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Wire Termination

FOR POWER CONNECTION

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