

Shielded Circular Subminiature Connectors (TRIAD™ 01) Product Line Information

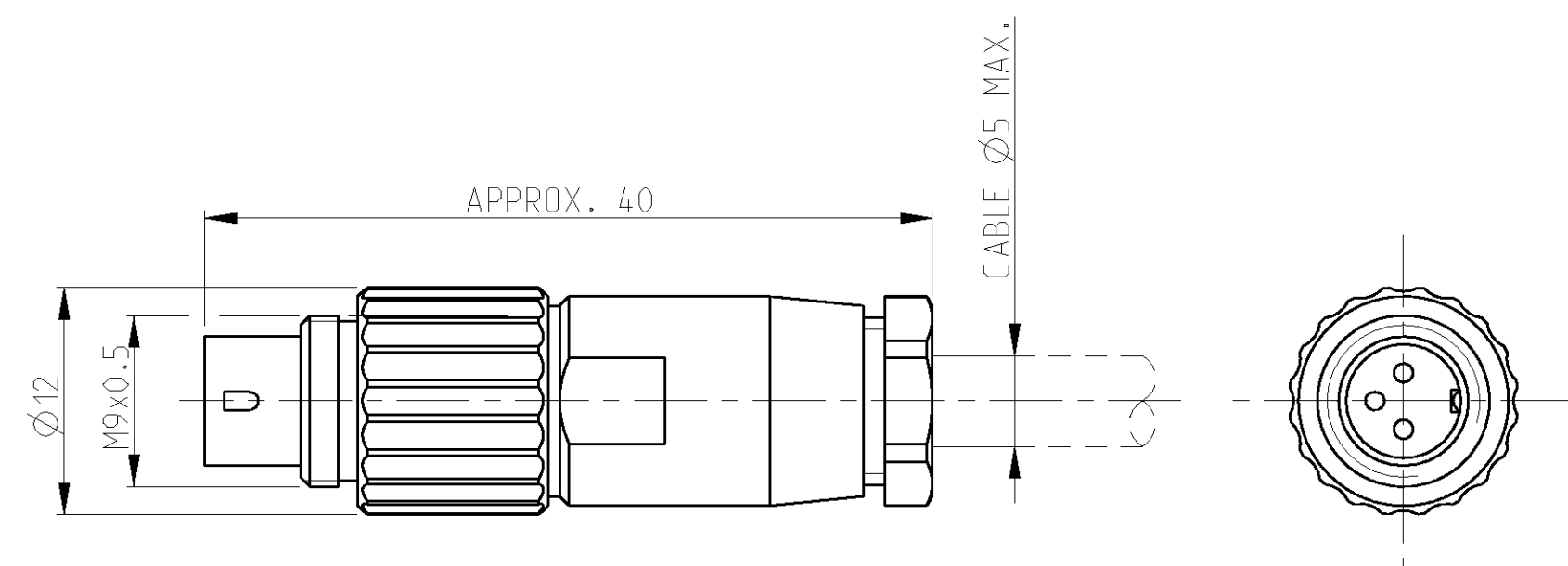
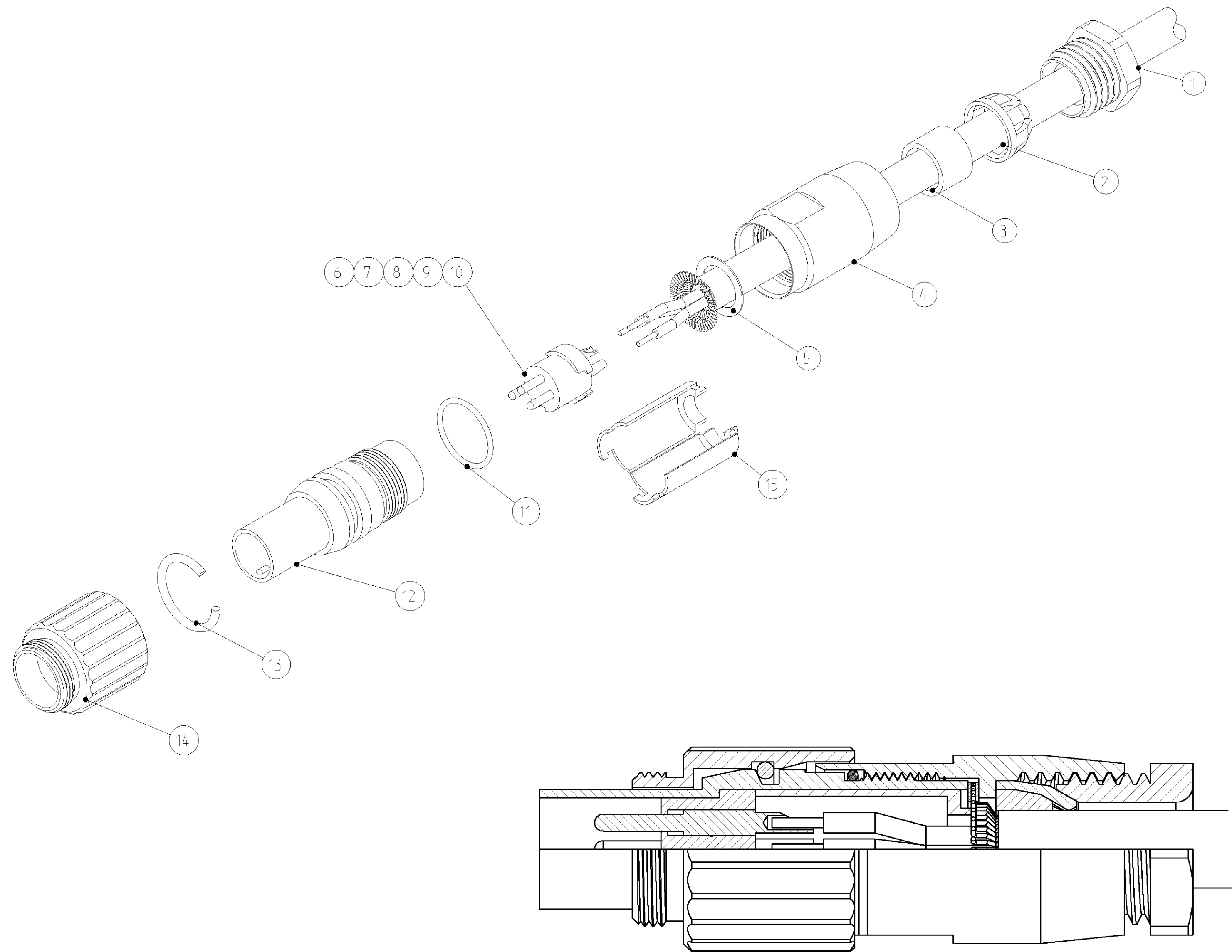
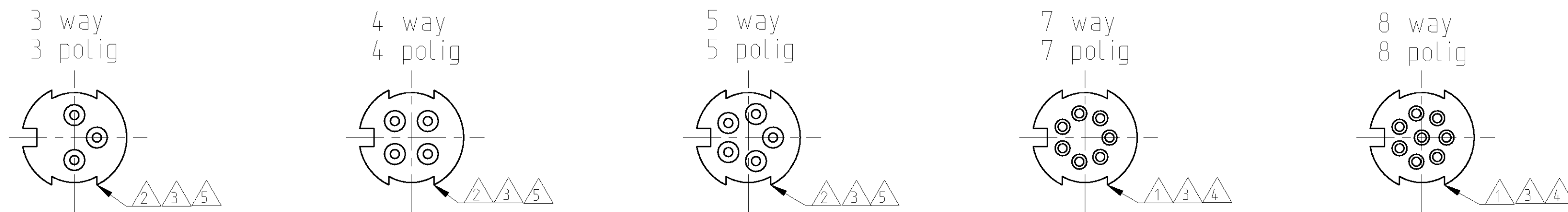
TRIAD™01 Shielded Subminiature Circular Connectors



Product Facts

- Small and lightweight, shielded round connector system
 - Panel mount PCB versions - 180° and 90°
 - Panel mount - Solder Cup - 180° versions
 - Field serviceable male and female connectors--crimp and solder version--for on site connections
 - Single and double ended overmoulded cable leads are available
 - Customized assemblies are possible to make upon request
 - Components for BUS applications available
-

SOLDERING SIDE
LOETSEITE



LOC	B15T	REVISIONS						
A1	-	F	LTR	DESCRIPTION AENDERINGEN RECHERCHER	DATE	OWN	APVD	
PROJECT NO.: EGR PC 0107		A1	E600-0576-01		18/JUN/2001	NG	GF	
		B1	ITEM NO. 5 QUANTITY 1 WAS 2		23-FEB-04	EW	GF	

MATERIAL / MATERIAL: PBT, UL-94 V2 SHELL MATERIAL / GEHÄUSEMATERIAL: CUZN FINISH / BESCHICHTUNG: TRIBOR 4 µm
WIRE GAGE / DRAHTGROESSE IN mm ² : 0.25
WIRE GAGE / DRAHTGROESSE IN mm ² : 0.14
CONTACT RESISTANCE / KONTAKTWIDERSTAND: => 5 mΩ
RATED CURRENT PER CONTACT / NENNSTROM PRO KONTAKT: 3 A
RATED CURRENT PER CONTACT / NENNSTROM PRO KONTAKT: 1 A
SHELL PROTECTION CLASS / SCHUTZKLASSE: IP 65 / DIN 40050
TERMINATION: SOLDERING / VERBINDUNG: LÖTKONTAKTE
TEST VOLTAGE / PRUEFSPANNUNG: 500 VAC
OPERATING VOLTAGE / BETRIEBSSPANNUNG: 60 VAC
OPERATING TEMPERATURE: -40°C TO +80°C / ARBEITSTEMPERATUR: -40°C BIS +80°C
MATING CYCLES / STECKZYKLEN: 500 MAX.
TECHNICAL DATA TECHNISCHE DATEN

TYCO NO. / TYCO-NR.						
2-1437719-7	2-1437719-4	2-1437719-1	1-1437719-8	1-1437719-5		
1	1	1	1	1	MOUNTING WRENCH / MONTAGESCHLUESSEL	18
1	1	1	1	1	COMPLETELY IN MINI-GRIP / KOMPLETT IN MINI-GRIP: 70x100mm	17
1	1	1	1	1	MOUNTING INSTRUCTION / MONTAGEANLEITUNG	16
1	1	1	1	1	INSULATION TUBE / ISOLIERHUELSE	15
1	1	1	1	1	SCREWING TUBE / SCHRAUBHUELSE	14
1	1	1	1	1	SPRING / FEDER	13
1	1	1	1	1	TUBE / INNENHUELSE	12
1	1	1	1	1	O-RING / O-RING	11
1					CONTACT CARRIER 8 WAY / STIFTSTECKER 8 POLIG	10
	1				CONTACT CARRIER 7 WAY / STIFTSTECKER 7 POLIG	9
		1			CONTACT CARRIER 5 WAY / STIFTSTECKER 5 POLIG	8
			1		CONTACT CARRIER 4 WAY / STIFTSTECKER 4 POLIG	7
				1	CONTACT CARRIER 3 WAY / STIFTSTECKER 3 POLIG	6
1	1	1	1	1	GROUNDING PLATE FOR 360°SHIELDING CONNECTION/ MASSESCHIEBE FUEER 360°ABSCHIRMUNG	5
1	1	1	1	1	HOUSING / GEHAUEUSE	4
1	1	1	1	1	CABLE SEALING / KABELDICHTUNG	3
1	1	1	1	1	STRAIN RELIEF / ZUGENTLASTUNGSKRONE	2
1	1	1	1	1	STRAIN RELIEF NUT / ZUGENTLASTUNGSMUTTER	1
-	-	-	-	-	REVISION OF EACH ASSY NO. (WHEN BLANK, USE DWG REV.)	
QTY REQD PER ASSY						
T01-0550-P08	T01-0550-P07	T01-0550-P05	T01-0550-P04	T01-0550-P03	DESCRIPTION BESCHREIBUNG	ITEM NO. POS.-NR.
					PARTS LIST TEILELISTE	
CATALOG-NO.	CATALOG-NO.	CATALOG-NO.	CATALOG-NO.	CATALOG-NO.		

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DIMENSIONS: MASSENORMEN (mm)		TOLERANCES UNLESS OTHERWISE SPECIFIED: ALLEGEOMETRIEGRÖßEN		NAME T01 MALE PLUG CONNECTOR SOLDER VERSION 3-8 POS. T01 STIFTSTECKER LOETVERSION 3-8 POL.	
		0 PLC ± 0.3 1 PLC $\pm$ 2 PLC $\pm$ 3 PLC $\pm$ 4 PLC $\pm$ FINISHES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC PRODUKTSPEZ. APPLICATION SPEC VERANLEGENSPEZ.	
MATERIAL -		FINISHSCHREIBWEISE/FARBEN -		SIZE A1	
WEIGHT GEWICHT -		CUSTOMER DRAWING		CAGE CODE 00779	
DRAWING NO. 1437719-5		SCALE 1:1		SHEET 1 OF 1	
REV. B		KUNDENZEICHUNG		REV. B	

Description

Where shielding is a requirement in medical or industrial applications there will be the use of TRIAD™01 a good decision. The small and lightweight system is available as panel mount headers with solid posts 180° and 90° for soldering on PC boards and also with solder cups for wire termination.

The PCB version has two board locks and the solder cup version has two solder tabs for grounding.

Through the three O-ring design on the panel mount connectors and in connection with the over-moulded cable assemblies, TRIAD™01 is a liquid and dust tight system according to IP65 protection class (DIN 40050). The reasonable shielding, the small diameters, the over-moulded connector with cable and the use of metallic parts makes TRIAD™01 also useable in harsh environments such as a factory where TRIAD™01 can be used in BUS applications such as CAN or MODULAR too.

Components such as T-Adapters and terminator plugs with a resistor are also available in different colors upon request (e.g. yellow and purple).

Specifications

Shell Protection Class (nested condition): IP65 acc. DIN 40050

Temperature Range: -40°C to +85°C

Mating Cycles: ≤500

Test Voltage: 625 V AC

Operating Voltage: 60 V AC

Contact Resistance: < 6 m ohm

Interlock: Screw Type

TRIAD™ 01

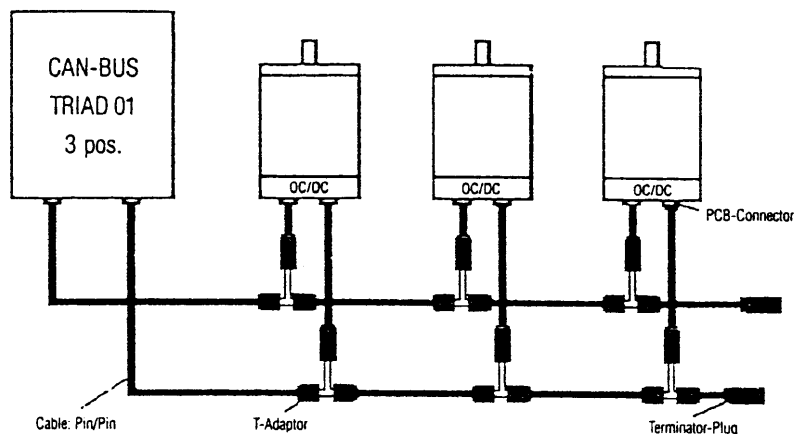
130-722 TO 131-090

TRIAD 01 is a subminiature circular connector system which can be used for applications where shielding is a requirement. Beside the excellent shielding properties of TRIAD01 there is also a good resistance against UV beams because of the OPTALOY® plating for all metal shell parts. TRIAD01 is a liquid- and dust-tight system according to IP65 protection-class (DIN 40050).

4

A 3xO-ring design of the TRIAD01 panel-mount-connectors is ideal for using the TRIAD01 system in smoke-analysis applications. Special T-adaptors with either a TRIAD01 connector or a SUB-D connector as Interface-Plug are offering the usage of TRIAD01 for BUS wiring like for a CAN- or for a MOD-BUS. Both systems consist of 3 items:

- 1 The T-Adaptor
- 2 The "Trunk"-Cable – an overmoulded cable with 2 male connectors
- 3 Terminator-Plug

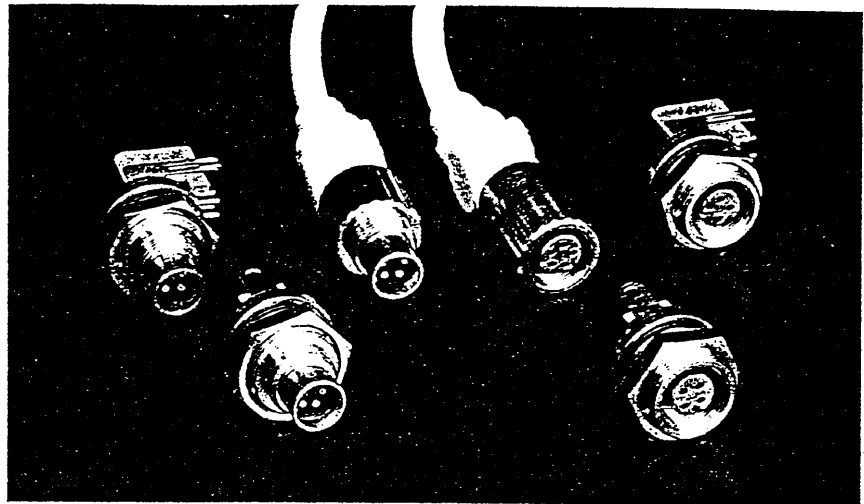


TRIAD™ 01

Shielded Subminiature

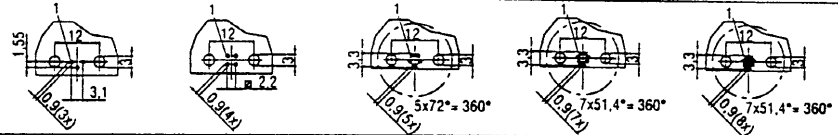
Circular Connectors

Panel Mount Version

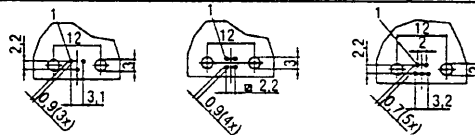


PCB layout for max. 1.6 mm thickness
(only for PCB pinversions)

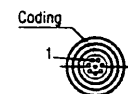
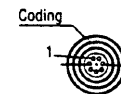
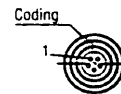
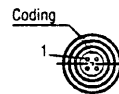
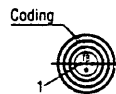
180°



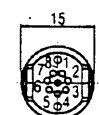
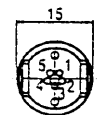
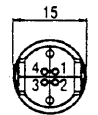
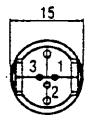
90°



Arrangement of Contacts/Mating side
pinversion.



Arrangement of Contacts/
Termination side pinversion.
(For sockets, arrangement is mirror
image of pin version)



No. of Contacts

3

4

5

7

8

Catalogue No.

Panel Mount 180° PCB version, pin	T01-0570-P03	T01-0570-P04	T01-0570-P05	T01-0570-P07	T01-0570-P08
Panel Mount 180° PCB version, socket	T01-0570-S03	T01-0570-S04	T01-0570-S05	T01-0570-S07	T01-0570-S08
Panel Mount 90° PCB version, pin	T01-0560-P03	T01-0560-P04	T01-0560-P05	—	—
Panel Mount 90° PCB version, socket	T01-0560-S03	T01-0560-S04	T01-0560-S05	—	—
Panel Mount 180° Handsolder version, pin	T01-0580-P03	T01-0580-P04	T01-0580-P05	T01-0580-P07	T01-0580-P08
Panel Mount 180° Handsolder version, pocket	T01-0580-S03	T01-0580-S04	T01-0580-S05	T01-0580-S07	T01-0580-S08

Technical Data

Termination	Soldering				
Plating	Tribor 4 µm				
Dielectric of insert	PBT UL 94-V2				
Shell protection class	IP 65 acc. DIN 40050				
Shell material	CuZn				
Operating temperature range	-40 °C to +85 °C				
Mating cycles	> 500				
Wire gage	max. 0.25 mm²		max. 0.14 mm²		
Rated current per contact	3 A		1 A		
Test voltage	500 V AC		500 V AC		
Operating voltage	60 V AC		60 V AC		
Contact resistance	< 3 m Ω		< 5 m Ω		

Priority type available from stock

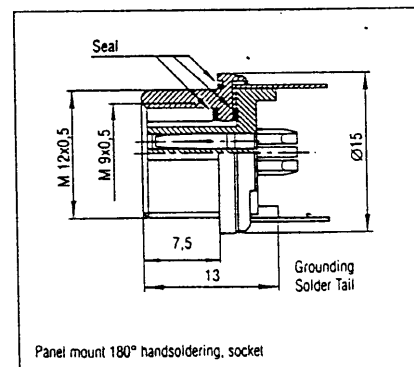
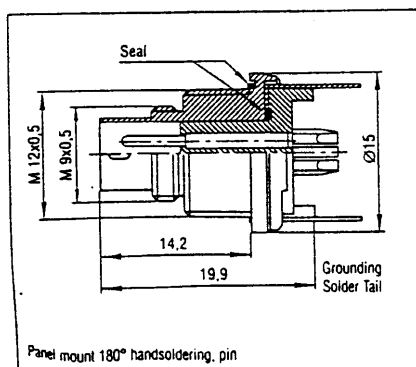
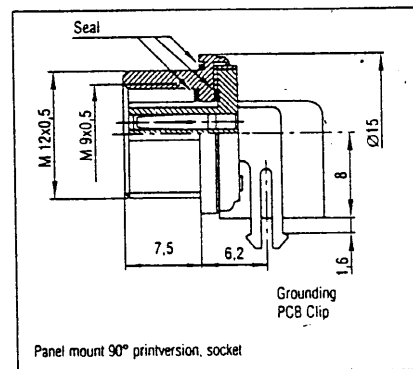
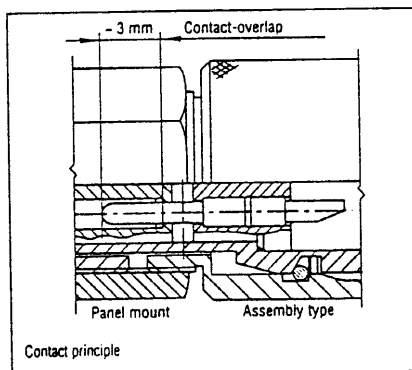
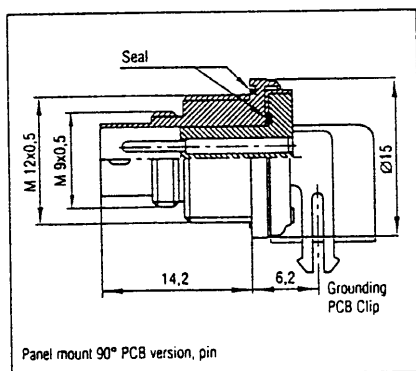
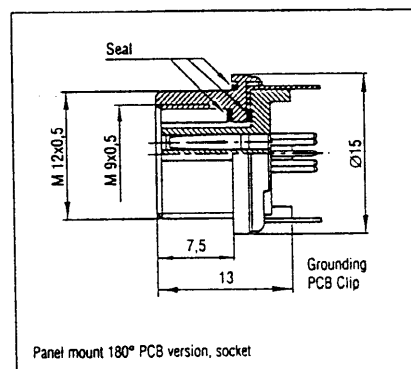
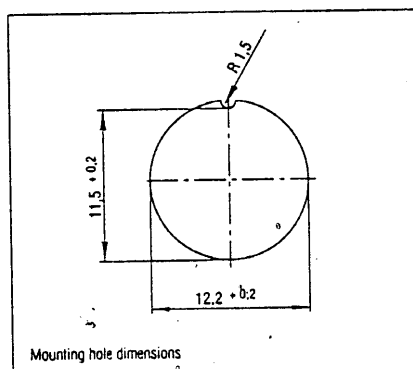
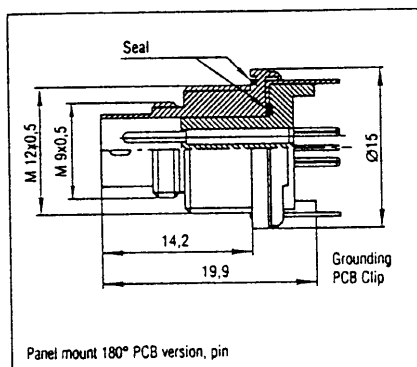
Minimum unit quantity: 25 pieces (500 pcs)

TRIAD™ 01

Shielded Subminiature

Circular Connectors

Panel Mount Version

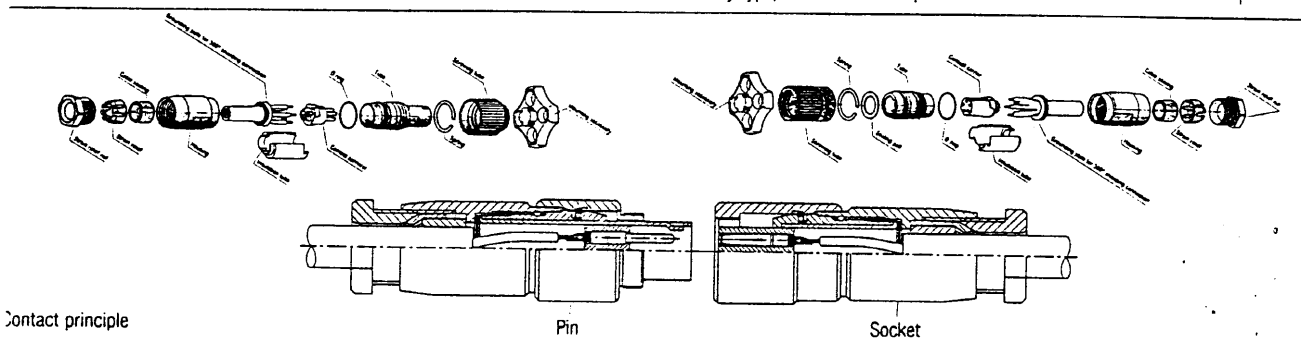
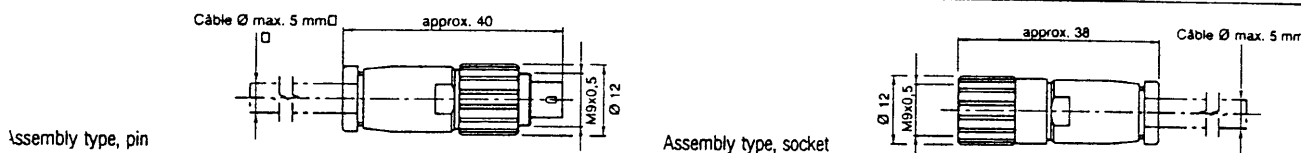


TRIAD™ 01

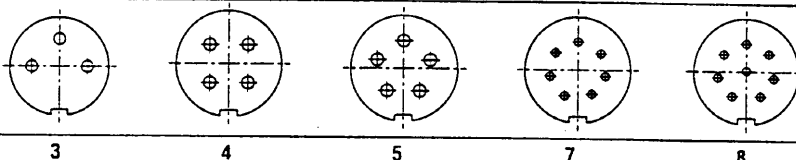
Shielded Subminiature

Circular Connectors

Cable Mount Plugs



Arrangement of Contacts



No. of Contacts

3

4

5

7

8

Catalogue No.

Assembly type, pin

T01-0550-P03

T01-0550-P04

T01-0550-P05

T01-0550-P07

T01-0550-P08

Assembly type, socket

T01-0550-S03

T01-0550-S04

T01-0550-S05

T01-0550-S07

T01-0550-S08

Technical Data

3

4

5

7

8

Termination

Soldering

Plating

Tribor 4 µm

Dielectric of insert

PBT UL 94-V2

Shell protection class

IP65 acc. DIN 40050

Shell material

CuZn

Operating temperature range

-40 °C to +85 °C

Mating cycles

> 500

Wire gage

max. 0.25 mm²

max. 0.14 mm²

Rated current per contact

3 A

1 A

Test voltage

500 VAC

500 VAC

Operating voltage

60 VAC

60 VAC

Contact resistance

< 3 mΩ

< 5 mΩ

Priority type available from stock

Minimum unit quantity: 25 pieces

14

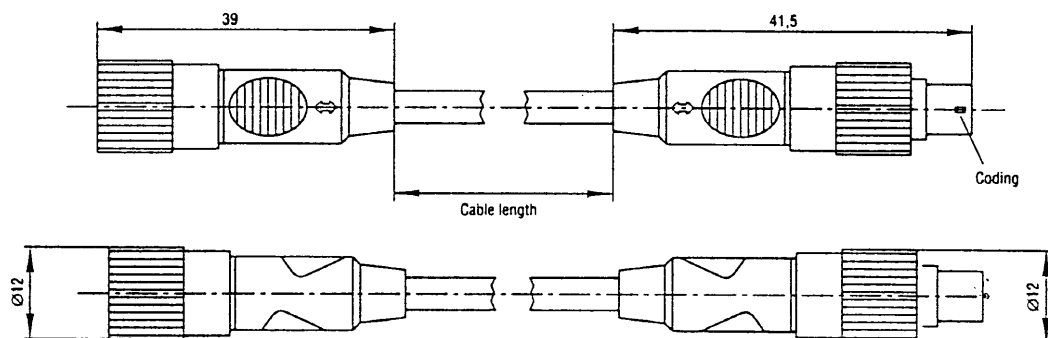
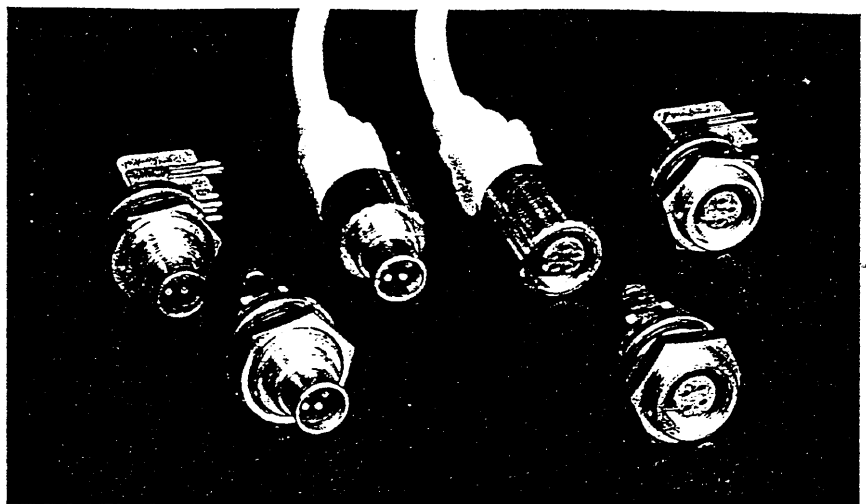
TRIAD™ 01

Shielded Subminiature

Circular Connectors

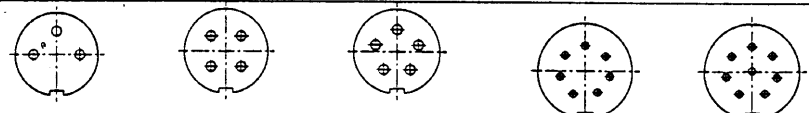
Cable assemblies

with overmoulded Connectors



Cable with overmoulded connector

Arrangement of Contacts



No. of Contacts	3	4	5	7	8
Catalogue No.					
Cable length 1 m	T01-0599-B03-A	T01-0599-B04-A	T01-0599-B05-A	T01-0599-B07-A	T01-0599-B08-A
Cable length 3 m	T01-0599-B03-B	T01-0599-B04-B	T01-0599-B05-B	T01-0599-B07-B	T01-0599-B08-B
Cable length 5 m	T01-0599-B03-C	T01-0599-B04-C	T01-0599-B05-C	T01-0599-B07-C	T01-0599-B08-C
Technical Data					
Termination	Soldering				
Plating	Tribor 4 µm				
Dielectric of insert	PBT UL 94-V2				
Shell protection class	IIP65 acc. DIN 40050				
Shell material	CuZn				
Operating temperature range	-40 °C to +85 °C				
Mating cycles	> 500				
Wire gage	max. 0.25 mm²		max. 0.14 mm²		
Rated current per contact	3 A		1 A		
Test voltage	500 VAC		500 VAC		
Operating voltage	60 VAC		60 VAC		
Contact resistance	< 3 mΩ		< 5 mΩ		

Priority type available from stock

Minimum unit quantity: 10 pieces

TRIAD™ 01

Shielded Subminiature

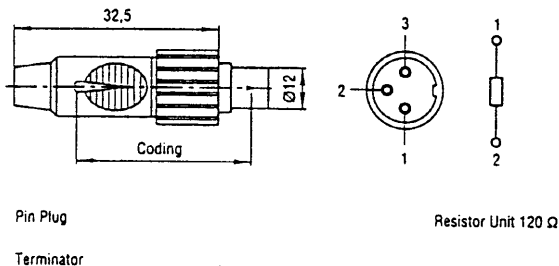
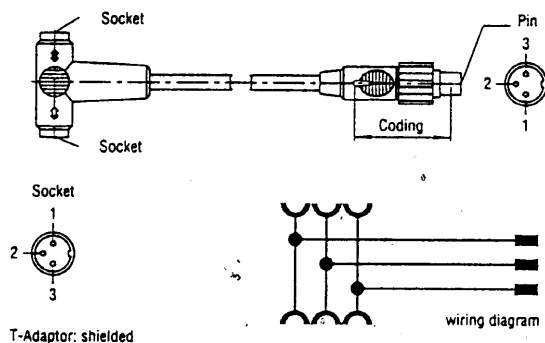
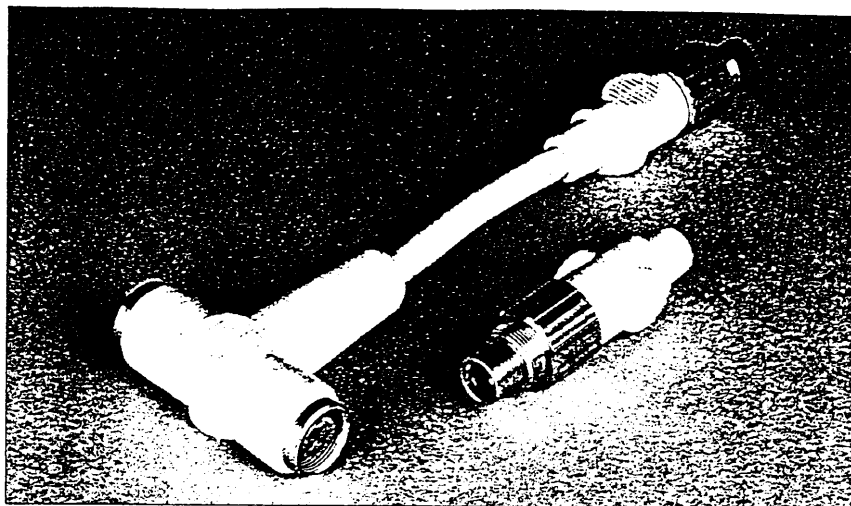
Circular Connectors

Accessories and Specials

CAN-BUS Components:

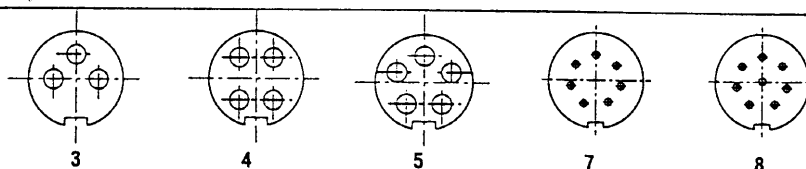
Non-interrupted Power

Supply for Network Devices



Cable assemblies, with overmoulded connectors: shielded

Arrangement of Contacts



No. of Contacts

Catalogue No.

T-Adaptor	T01-05T-SSP03-T	T01-05T-SSP04-T	T01-05T-SSP05-T	T01-05T-SSP07-T	T01-05T-SSP08-T
Terminator Resistor Unit	T01-05R-P03-120	-	-	-	-
Technical Data	3	4	5	7	8
Termination	Soldering				
Plating	Tribor 4 µm				
Dielectric of insert	PBT UL 94-V2				
Shell protection class	IP65 acc. DIN 40050				
Shell material	CuZn				
Operating temperature range	-40 °C to +85 °C				
Mating cycles	> 500				
Wire gage		max. 0.25 mm²			max. 0.14 mm²
Rated current per contact		3 A			1 A
Test voltage		500 VAC			500 VAC
Operating voltage		60 VAC			60 VAC
Contact resistance		< 3 mΩ			< 5 mΩ

Priority type available from stock

Minimum unit quantity: 25 pieces

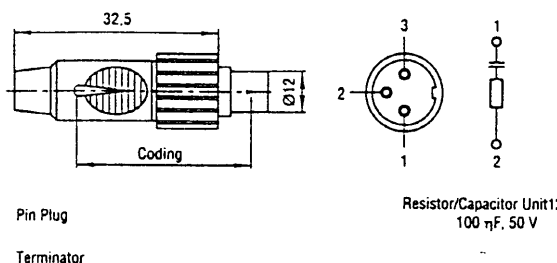
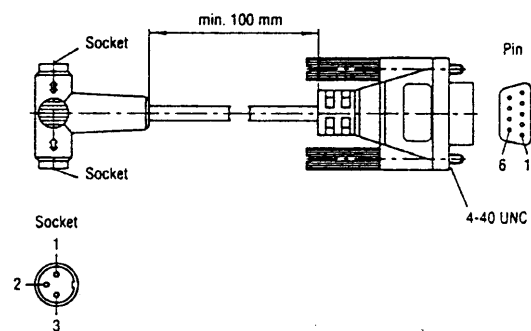
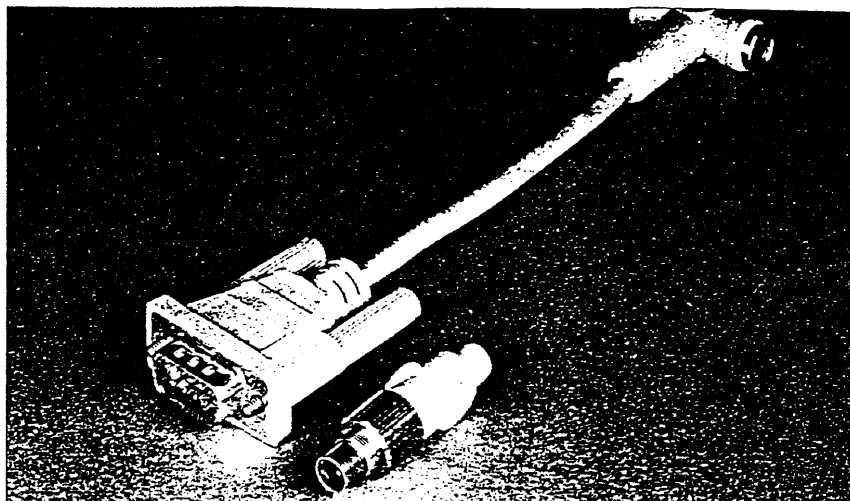
TRIAD™ 01

Shielded Subminiature

Circular Connectors

Accessories and Specials

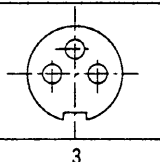
MOD-BUS Components



MOD-BUS-Adaptor: shielded

Cable assemblies, with overmoulded connectors: shielded

Arrangement of Contacts



No. of Contacts

3

Catalogue No.

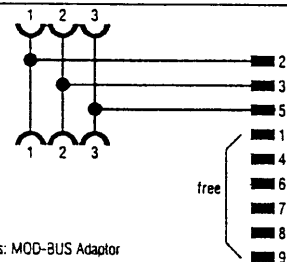
MOD-BUS Adaptor

T01-05T-MOD03-T

Terminator Resistor/Capacitor Unit

T01-05R-P03-RC

Assignment of Contacts: MOD-BUS Adaptor



Technical Data

3

Termination

Soldering

Plating

Tribor 4 µm

Dielectric of insert

PBT UL 94-V2

Shell protection class

IP65 acc. DIN 40050

Shell material

CuZn

Operating temperature range

-40 °C to +85 °C

Mating cycles

> 500

Wire gage

max. 0.25 mm²

Rated current per contact

3 A

Test voltage

500 VAC

Operating voltage

60 VAC

Contact resistance

< 3 mΩ

TRIAD™ 01

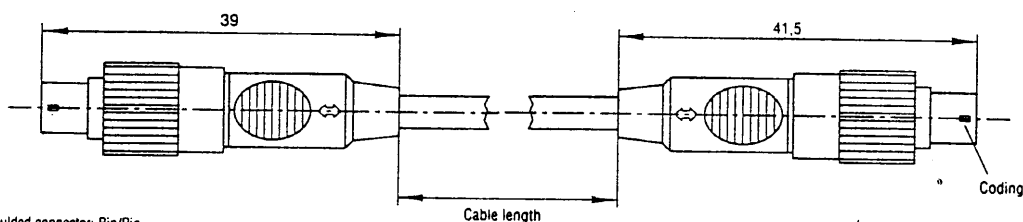
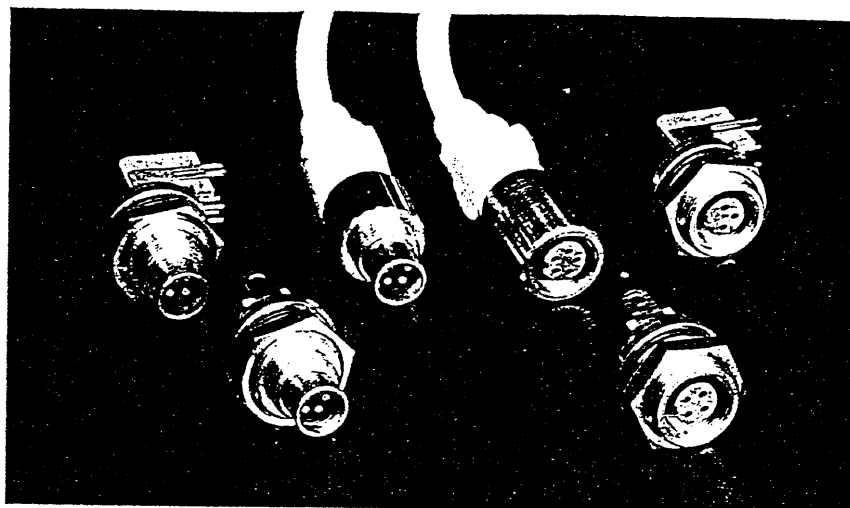
Shielded Subminiature

Circular Connectors

Accessories and Specials

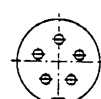
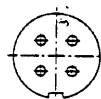
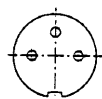
BUS-Cable Assemblies

with Overmoulded Connectors



Cable with overmoulded connector: Pin/Pin

Arrangement of Contacts



No. of Contacts	3	4	5
	Catalogue No.		
Cable length 0.5 m	T01-0599-PP03-F	T01-0599-PP04-F	T01-0599-PP05-F
Cable length 1 m	T01-0599-PP03-A	T01-0599-PP04-A	T01-0599-PP05-A
Cable length 2 m	T01-0599-PP03-E	T01-0599-PP04-E	T01-0599-PP05-E
Cable length 5 m	T01-0599-PP03-C	T01-0599-PP04-C	T01-0599-PP05-C
Technical Data	3	4	5
Termination		Soldering	
Plating		Tribor 4 µm	
Dielectric of insert		PBT UL 94-V2	
Shell protection class		IIIP65 acc. DIN 40050	
Shell material		CuZn	
Operating temperature range		-40 °C to +85 °C	
Mating cycles		> 500	
Wire gage		max. 0.25 mm²	
Rated current per contact		3 A	
Test voltage		500 VAC	
Operating voltage		60 VAC	
Contact resistance		< 3 mΩ	

Priority type available from stock

Minimum unit quantity: 25 pieces

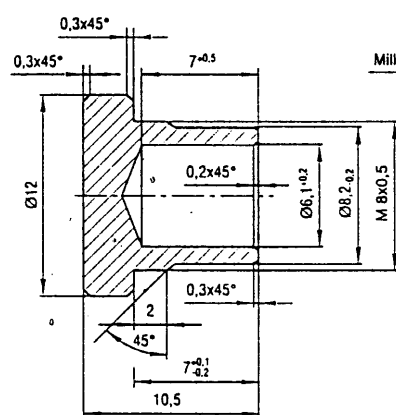
TRIAD™ 01

Shielded Subminiature

Circular Connectors

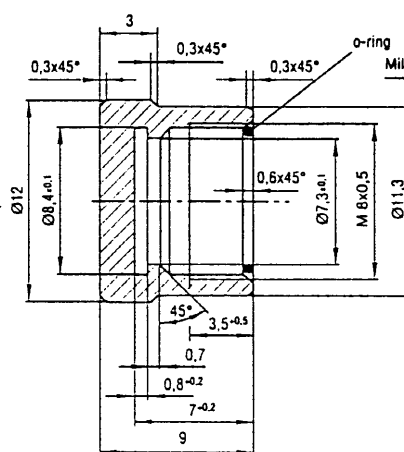
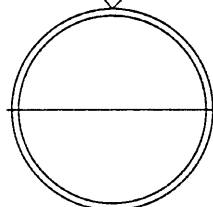
Accessories and Specials

Dust Caps



Dust cap: for socket connectors

Milled DIN 82 RAA 0,5



Dust cap: for pin connectors

No. of Contacts	3	4	5	7	8
For Pin Plugs	T01-0500-P				
For Socket Connectors	T01-0500-S				
Technical Data	3	4	5	7	8
Shell protection class	IP 65 acc. DIN 40050				
Shell material	CuZn				
Operating temperature range	-40 °C to +85 °C				

Priority type available from stock

Minimum unit quantity: 25 pieces