

The main features and advantages

Variety of potential uses

Small size, low space requirement.
2, 3, 4 and 5-pole versions with ground contact in each case.
Numerous types for a variety of applications.

Sturdy design

Casing of impact-proof fibre-reinforced polyamide. Also suitable for machinery and equipment. Can be interlocked to eliminate vibrations. Crimping connections of the 5-pole series also suitable for use in equipm. subject to major vibrations.

Protection class DIN 40 050, IP 54 Splash-proof.

Cable connector with internal strain relief in accordance with VDE regulations.

STAS 2/STAK 2 without strain relief.

SEV approval

The connectors are cleared for general sale in Switzerland by the Material Test Institution of the Swiss Electrical Engineering Association (SEV) as specified in test reports.



VDE expertise

VDE expertises with process inspection have been issued for these connectors. Their design, terminals and materials comply with the regulations pursuant to VDE 0660. The creepage distances and clearances satisfy the requirements as per VDE 0110 for the insulation groups and reference voltages.

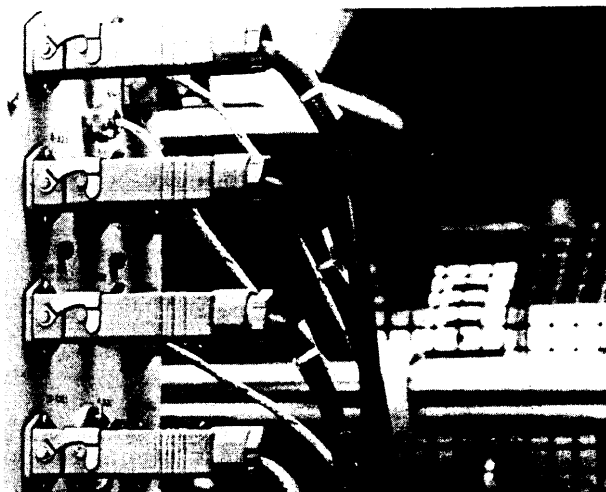
750

1796

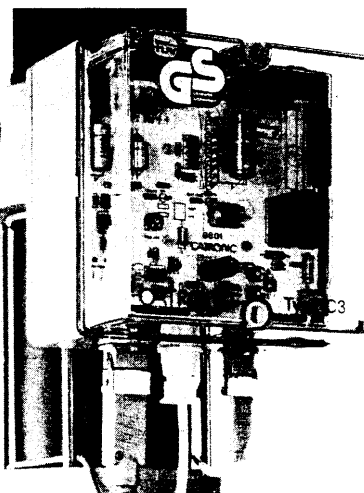
1806

727

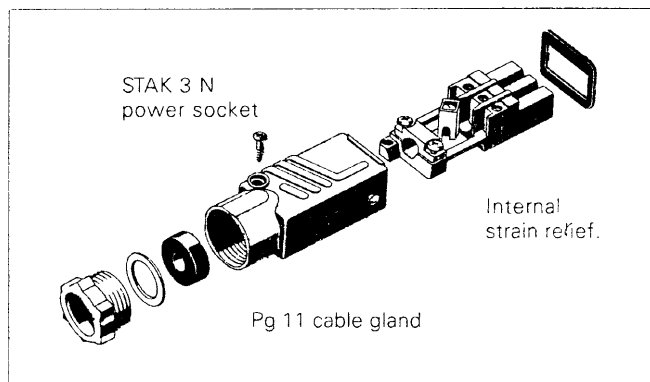
According to DIN VDE 0627, **connectors** are devices which must not be plugged or unplugged when used for their intended purpose (when conducting electricity). The standard VDE regulations DIN VDE 0100 T 410 and DIN VDE 0113 T1 (EN 60 204 T1) must be complied with during service.



Control unit of an injection molding machine



Water processing unit



Application examples

- ☐ Small drives (Venetian blinds, tube and servo drives...)
- ☐ Power feeders in lighting systems
- ☐ Power supply with more stringent requirements (Technical Control Boards-(TÜV), such as for electrical medical equipment, measuring equipment, etc.

- ☐ Power and control lead connections to appliances, machinery, plant.
- ☐ Plug connections to equipment subject to vibrations (ST series, 5-pole)

We will gladly advise

if you have any questions concerning the possible applications, technical data or special designs.

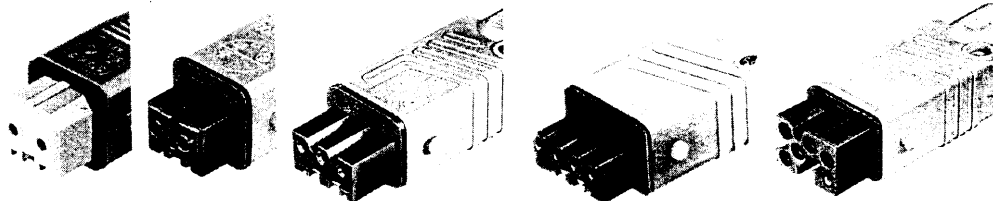
ST series

2 pole + ⊕

3 pole + ⊕

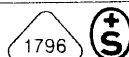
4 pole + ⊕

5 pole + ⊕



Programme survey

Power connector	STAS 2				
- with strain relief	STAS 20	STAS 200	STAS 3		STAS 5
- with moulded-on lead			STAS 3 K		
- with moulded-on lead and safety bracket				STAS 4 K 075 SI	
Cable socket	STAK 2				
- with strain relief	STAK 20	STAK 200	STAK 3	STAK 4	STAK 5
- with moulded-on lead			STAK 3 K		
Panel-mounted plug	STASEI 2	STASEI 200	STASEI 3		STASEI 5
Surface-mounted plug	STASAP 2	STASAP 200	STASAP 300		STASAP 5
Panel-mounted socket	STAKEI 2	STAKEI 200	STAKEI 3		STAKEI 5
Surface-mounted socket	STAKAP 2	STAKAP 200	STAKAP 3		STAKAP 5
Angled connector			STAKWI 3		
Safety bracket	STASI 2	STASI 2	STASI 3		STASI 3



The connectors in these series cannot be plugged into small appliance connectors as per DIN 49 454



Technical data

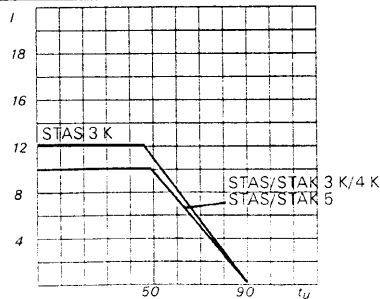
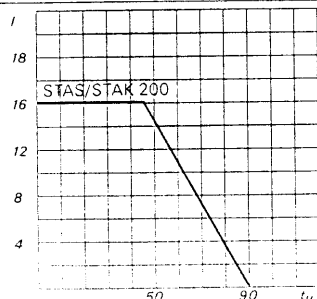
Number of poles	2 + ⊕	2 + ⊕	3 + ⊕	4 + ⊕	5 + ⊕
Operating voltage	UC 250 V (≈)	UC 250 V (≈)	UC 250 V (≈)	UC 250 V (≈)	UC 250 V (≈)
Reference voltage DIN VDE 0110	250~/300 V-	250~/300 V-	380~/450 V-	380~/450 V-	380~/450 V-
Insulation group DIN VDE 0110	C	C	B	B	B
Continuous load current	16 A	16 A	16 A	10 A	10 A
Contact resistance	≤ 5mΩ	≤ 5mΩ	≤ 5 mΩ	≤ 10 mΩ	≤ 10 mΩ
Contact elements:	Pin and spring socket	Pin and spring socket	Pin and spring socket	Pin and spring socket	Pin and spring socket
Pin diameter	2 mm	2 mm	2 mm	1,6 mm	1,6 mm
Contact material/ Surface	Cu Zn/ gal Ni 2 Sn 4	Cu Zn/ gal Ni 2 Sn 4	Cu Zn/ gal Ni 2 Sn 4	Cu Zn silver plated	Cu Zn silver plated
Type of connection	screw/ solder	screw	screw	crimp	crimp
Maximum cross-section	1 mm ²	1 mm ²	1.5 mm ²	1.5 mm ²	1.5 mm ²
Outer lead diameter	4 - 6.5 mm	4 - 6.5 mm	6 - 10 mm	6 - 10 mm	6 - 10 mm
Cable gland	Pg 7	Pg 7	Pg 11	Pg 11	Pg 11
Material/ fire properties	Contact bearer PA66 - GF25/UL94 - V1 Casing PA6 - GF30/UL94 - HB	Contact bearer PA66 - GF25/UL94 - V1 Casing PA6 - GF30/UL94 - HB	Contact bearer PA66 - GF25/UL94 - V1 Casing PA6 - GF30/UL94 - HB	Contact bearer PA66 - GF25/UL94 - V1 Casing PA6 - GF30/UL94 - HB	Contact bearer PA66 - GF25/UL94 - V1 Casing PA6 - GF30/UL94 - HB
Protection class to DIN 40 050	IP 54	IP 54	IP 54	IP 54	IP 54
Ambient temperature t _u	-30 ... 90 °C	-30 ... 90 °C	-30 ... 90 °C	-30 ... 90 °C	-30 ... 90 °C

Derating curve

(Current carrying capacity)

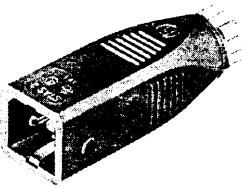
I = continuous load current for one pair of contacts in A

t_u = ambient temperature in °C

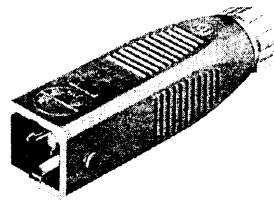


2 pole + \oplus
Protection class IP 54

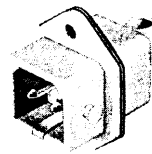
STAS 2



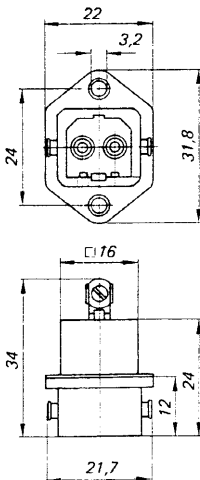
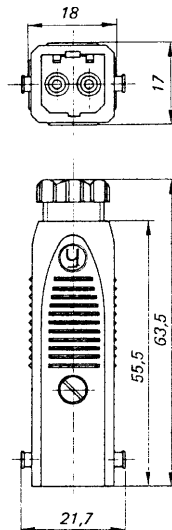
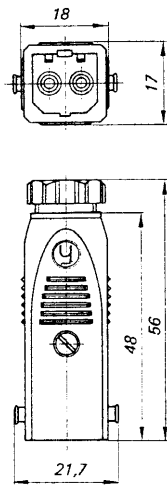
STAS 20



STASEI 2



Electrical data, refer to page 9



Sectional view,
refer to page 22

Technical Data

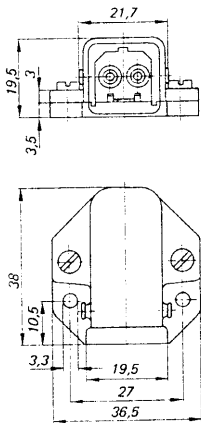
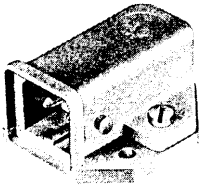
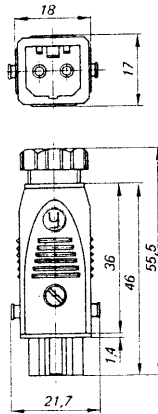
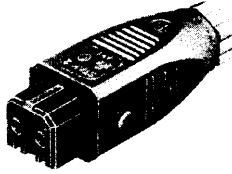
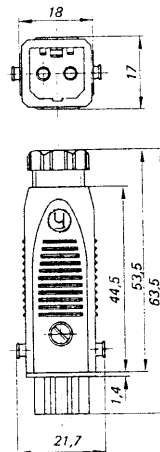
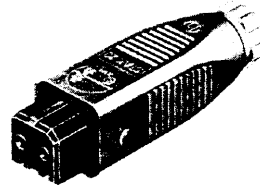
Design/ Description	Cable connector without strain relief	Cable connector with strain relief	Panel-mounted connector
Number of poles	2 + \oplus	2 + \oplus	2 + \oplus
Type of connection	screw	screw	screw
Scope of supply	1 cable connector, pre-assembled	1 cable connector, pre-assembled	1 panel-mounted connector with gasket, pre-assembled
Colour of casing	grey	grey	grey
Can be plugged into	STAK 2, STAK 20, STAKEI 2, STAKAP 2	STAK 2, STAK 20, STAKEI 2, STAKAP 2	STAK 2, STAK 20, STAKEI 2, STAKAP 2

Order Data

Type	STAS 2	STAS 20	STASEI 2
Order no.	930 620-106	931 265-106	930 622-106
Quantity boxed	100 each	100 each	100 each

Accessories – must be ordered separately

	Page	Type	Order no.	Type	Order no.	Type	Order no.
Safety bracket	14	STASI 2	732 044-000	STASI 2	732 044-000	STASI 2	732 044-000

STASAP 2

STAK 2

STAK 20


Sectional view,
refer to page 22

Technical data

Surface-mounted connector with cast baseplate for installation on flat surfaces. An electrical connection must be established between the baseplate and the equipment if a protective earth conductor is required. The connector must be additionally sealed after installation in order to achieve protection class IP 54.

Cable socket
without strain relief

Cable socket
with strain relief

2 + ⊕	2 + ⊕	2 + ⊕
screw	screw	screw
1 surface-mounted connector, pre-assembled	1 cable socket, pre-assembled	1 cable socket, pre-assembled
grey	grey	grey
STAK 2, STAK 20, STAKEI 2	STAS 2, STAS 20, STASEI 2, STASAP 2	STAS 2, STAS 20, STASEI 2, STASAP 2

Order data

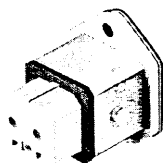
STASAP 2	STAK 2	STAK 20
930 822-106	930 621-106	931 264-106
100 each	100 each	100 each

Accessories must be ordered separately

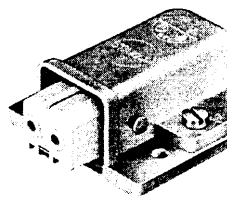
Type	Order no.	Type	Order no.	Type	Order no.
STASI 2	732 044-000	STASI 2	732 044-000	STASI 2	732 044-000

2 pole + G
Protection class IP 54

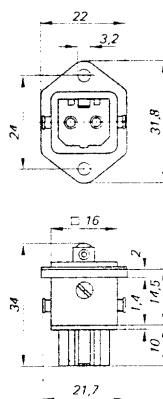
STAKEI 2



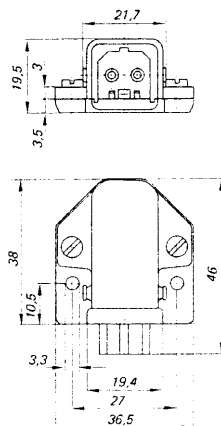
STAKAP 2



Electrical data, refer to page 9



Sectional view,
refer to page 22



Sectional view,
refer to page 22

Technical data

Design/
Description

Panel-mounted socket

Surface-mounted socket with cast baseplate for installation on flat surfaces. An electrical connection must be established between the baseplate and the equipment if a protective earth conductor is required. The connector must be additionally sealed after installation in order to achieve protection class IP 54.

Number of poles	2 + G	2 + G
Type of connection	screw	screw
Scope of supply	1 panel-mounted socket, pre-assembled	1 surface-mounted socket, pre-assembled
Colour of casing	grey	grey
Can be plugged into	STAS 2, STAS 20, STASEI 2, STASAP 2	STAS 2, STAS 20, STASEI 2

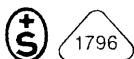
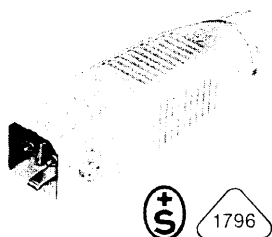
Order data

Type	STAKEI 2	STAKAP 2
Order no.	930 647-106	931 329-106
Quantity boxed	100 each	100 each

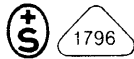
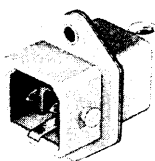
Accessories – must be ordered separately

	Page	Type	Order no.	Type	Order no.
Safety bracket	14	STASI 2	732 044-000	STASI 2	732 044-000

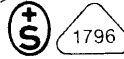
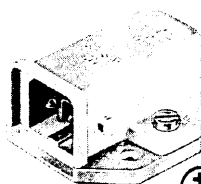
STAS 200



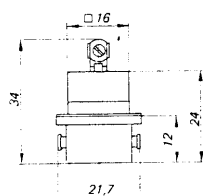
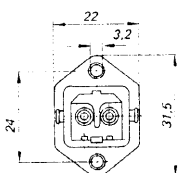
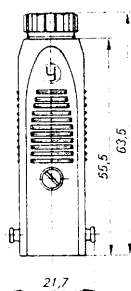
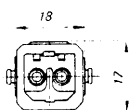
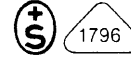
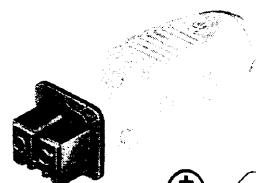
STASEI 200



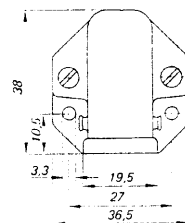
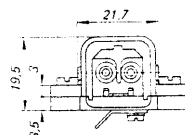
STASAP 200



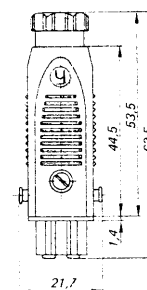
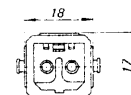
STAK 200



Sectional view,
refer to page 22



Sectional view,
refer to page 22



Technical data

Cable connector
with strain relief

Panel-mounted connector

Surface-mounted connector
with cast baseplate for
installation on flat surfaces. The
protective earth conductor is
connected to the soldering lug
on the underside of the
installation plate. The connector
must additionally be sealed after
installation in order to achieve
protection class IP 54.

Cable socket
with strain relief


2 + ⊕	2 + ⊕	2 + ⊕	2 + ⊕
screw	screw	screw/solder	screw
1 cable connector, pre-assembled	1 panel-mounted connector, pre-assembled	1 surface-mounted connector, pre-assembled	1 cable socket, pre-assembled
grey	grey	grey	grey
STAK 200, STAKEI 200, STAKAP 200	STAK 200, STAKEI 200, STAKAP 200	STAK 200, STAKEI 200	STAS 200, STASEI 200, STASAP 200

Order data

STAS 200	STASEI 200	STASAP 200	STAK 200
932 038-106	932 048-106	932 046-106	932 037-106
100 each	100 each	100 each	100 each

Accessories – must be ordered separately

Type	Order no.	Type	Order no.	Type	Order no.	Type	Order no.
STASI 2	732 044-000	STASI 2	732 044-000	STASI 2	732 044-000	STASI 2	732 044-000

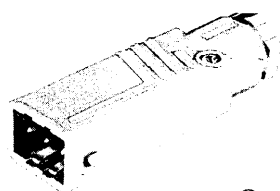
3 pole + 
Protection class IP 54



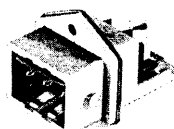
VDE expertise
with process
inspection

Electrical data, refer to page 9

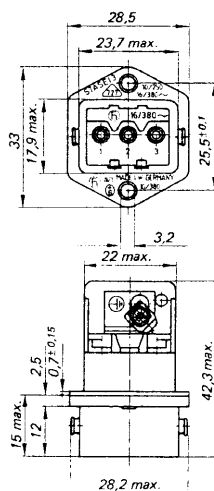
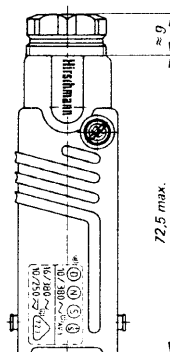
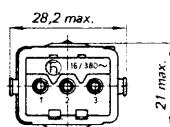
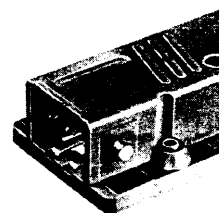
STAS 3



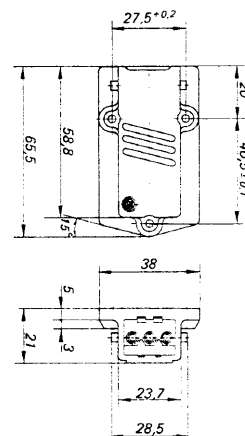
STASEI 3



STASAP 3






Sectional view,
refer to page 22



Sectional view,
refer to page 22

Technical data

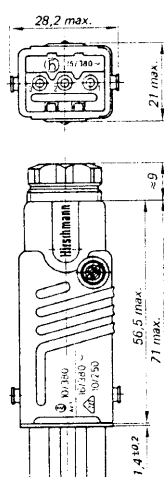
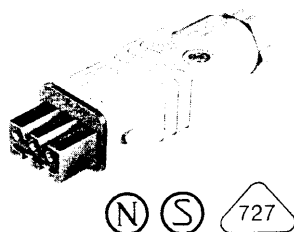
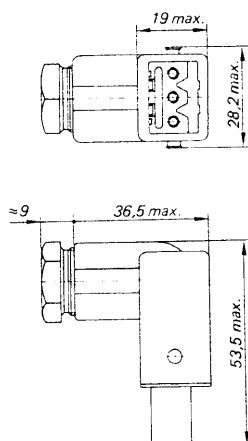
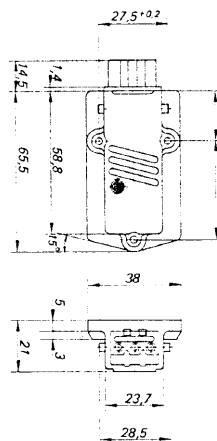
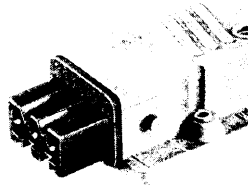
Design/ Description	Cable connector with strain relief	Panel-mounted connector	Surface-mounted connector
Number of poles	3 + 	3 + 	3 + 
Type of connection	screw	screw	screw
Scope of supply	1 cable connector, pre-assembled	1 panel-mounted connector, pre-assembled, 1 gasket	1 surface-mounted connector, pre-assembled, 1 gasket
Colour of casing	grey	grey	grey
Can be plugged into	STAK 3, STAK 3 K, STAKEI 3, STAKAP 3, STAKWI 3	STAK 3, STAK 3 K, STAKEI 3, STAKAP 3, STAKWI 3	STAK 3, STAKEI 3, STAKWI 3, STAK 3 K

Order data

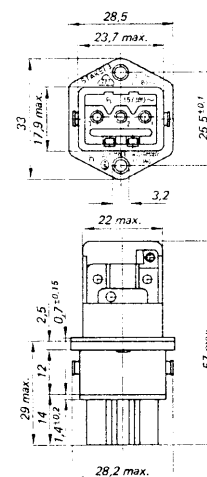
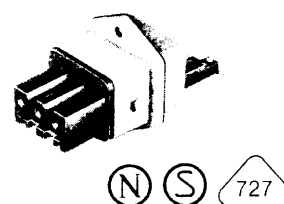
Type	STAS 3	STASEI 3	STASAP 3
Order no.	932 143-106	932 145-106	932 514-106
Quantity boxed	100 each	100 each	100 each

Accessories – must be ordered separately

	Page	Type	Order no.	Type	Order no.	Type	Order no.
Safety bracket	18	STASI 3	732 045-001	STASI 3	732 045-001	STASI 3	732 045-001

STAK 3

STAKWI 3

STAKAP 3


Sectional view,
refer to page 22

STAKEI 3


Sectional view,
refer to page 22

Technical data

Cable socket with strain relief	Cable socket, angled	Surface-mounted socket	Panel-mounted socket
3 +	3 +	3 +	3 +
screw	screw	screw	screw
1 cable socket, pre-assembled	1 cable socket, pre-assembled	1 surface-mounted socket, pre-assembled, 1 gasket	1 panel-mounted socket, pre-assembled, 1 gasket
grey	grey	grey	grey
STAS 3, STAS 3 K, STASEI 3, STASAP 3 et STASEI 3/2 SF..	STAS 3, STAS 3 K, STASEI 3, STASAP 3 et STASEI 3/2 SF..	STAS 3, STAS 3 K, STASEI 3, STASAP 3 et STASEI 3/2 SF..	STAS 3, STAS 3 K, STASEI 3, STASAP 3 et STASEI 3/2 SF..

Order data

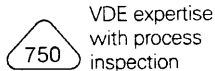
STAK 3	STAKWI 3	STAKAP 3	STAKEI 3
932 140-106	932 413-106	932 513-106	932 142-106
100 each	100 each	100 each	100 each

Accessories — must be ordered separately

Type	Order no.	Type	Order no.	Type	Order no.	Type	Order no.
STASI 3	732 045-001	STASI 3	732 045-001	STASI 3	732 045-001	STASI 3	732 045-001

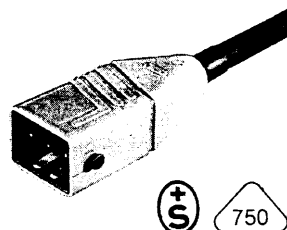
3 pole + ⊕

Protection class IP 54

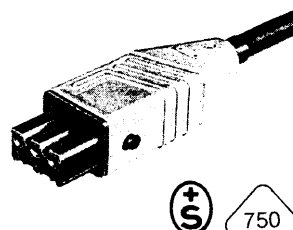


Electrical data, refer to page 9

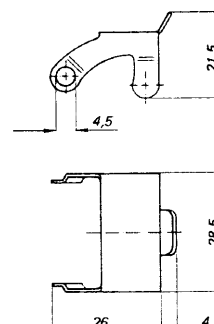
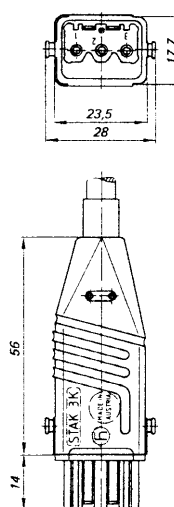
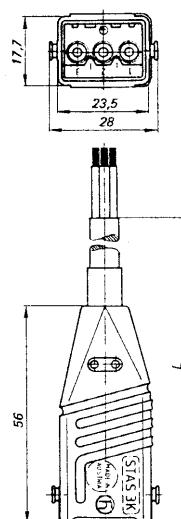
STAS 3 K



STAK 3 K



STASI 3



Technical data

Design/ Description	Cable connector with moulded-on cable. VDE expertise with cable A 05 RN-F 4 G 0.75 (custom design on request)	Cable socket with moulded-on cable. VDE expertise with cable A 05 RN-F 4 G 0.75 (custom design on request)	Safety bracket, nickel-plated brass
------------------------	---	--	--

Number of poles	3 + ⊕	3 + ⊕	
Type of connection	Wire ends stripped, tin-plated	Wire ends stripped, tin-plated	
Scope of supply	1 cable connector with moulded-on cable	1 cable socket with moulded-on cable	1 safety bracket
Colour of casing	grey/black	grey/black	nickel-plated
Can be plugged into	STAK 3, STAKEI 3, STAKAP 3, STAKWI 3	STAS 3, STASEI 3, STASAP 3	All 3 + ⊕ and 5 + ⊕-pole connectors in series ST
	Please specify the required cable cross-section and length in your order!	Please specify the required cable cross-section and length in your order!	

Order data

Type	STAS 3 K	STAK 3 K	STASI 3
Order no.	931 299-...	932 187-...	732 045-001
Quantity boxed	Minimum quantity: 500	Minimum quantity: 500	100 each

Accessories - must be ordered separately

	Page	Type	Order no.	Type	Order no.
Safety bracket	18	STASI 3	732 045-001	STASI 3	732 045-001

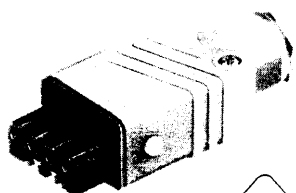
4 pole + Ⓢ
Protection class IP 54



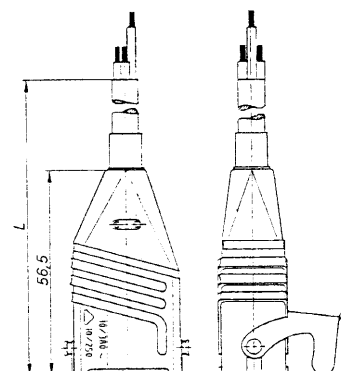
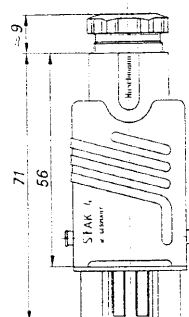
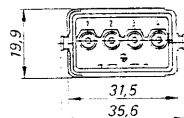
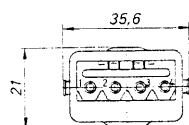
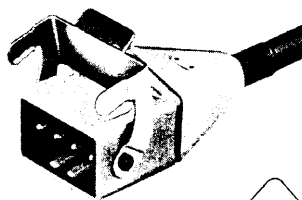
VDE expertise
with process
inspection

Electrical data, refer to page 9

STAK 4



STAS 4K 075 SI



Sectional view,
refer to page 22

Technical data

Design/
Description

Cable socket
with strain relief

Cable socket
with pre-assembled safety
bracket STASI 4 and moulded-
on cable.
VDE expertise with cable
A 05 RN-F 5 G 0.75

Number of poles	4 + Ⓢ	4 + Ⓢ
Type of connection	screw	Wire ends stripped, tin-plated
Scope of supply	1 cable socket, pre-assembled	1 cable socket + moulded-on cable and pre-assembled safety bracket
Colour of casing	grey	grey/black
Can be plugged into	STAS 4K 075 SI	STAK 4

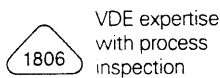
Please specify the required
cable cross-section and length
in your order!

Order data

Type	STAK 4	STAS 4K 075 SI
Order no.	932 533-106	932 578-001 (L = 800)
Quantity boxed	100 each	100 each

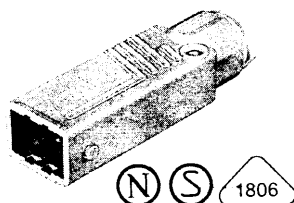
Accessories must be ordered separately

5 pole + ⊕
 Protection class IP 54

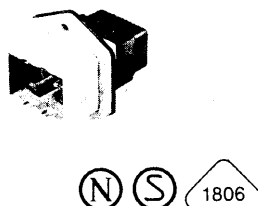


Electrical data, refer to page 9

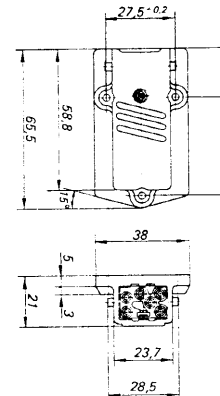
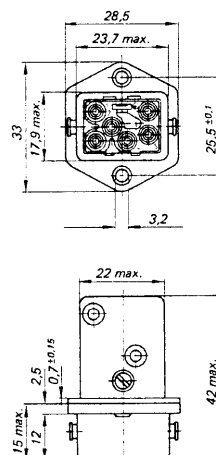
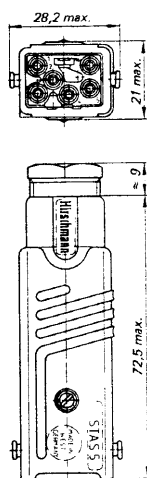
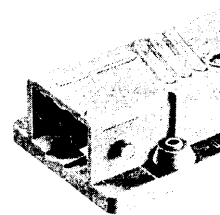
STAS 5



STAKEI 5



STASAP 5



Sectional view,
refer to page 22

Technical data

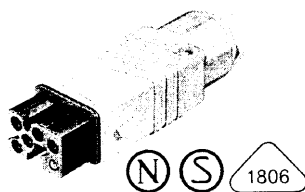
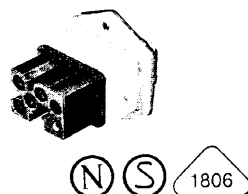
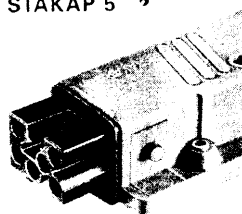
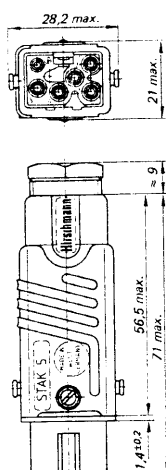
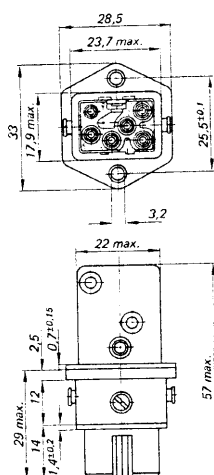
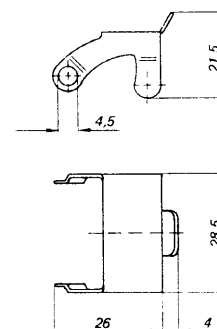
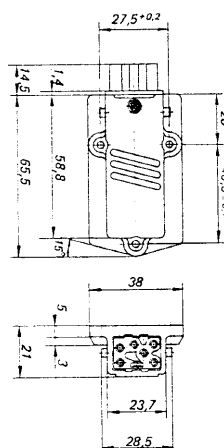
Design/ Description	Cable connector with strain relief	Panel-mounted connector	Surface-mounted connector
Number of poles	5 + ⊕	5 + ⊕	5 + ⊕
Type of connection	crimp	crimp	crimp
Scope of supply	1 cable connector, not assembled, 6 pin contacts RSC 162, in polythene bag	1 panel-mounted conn., not assembled, 6 pin contacts RSC 162, 1 gasket in polythene bag	1 surface-mounted connector, not assembled, 6 pin contacts RSC 162, in polythene bag
Colour of casing	grey	grey	grey
Can be plugged into	STAK 5, STAKEI 5, STAKAP 5	STAK 5, STAKEI 5, STAKAP 5	STAK 5

Order data

Type	STAS 5	STAKEI 5	STASAP 5
Order no.	931 692-106	931 697-106	932 512-106
Quantity boxed	100 each	100 each	100 each

Accessories – must be ordered separately

	Page	Type	Order no.	Type	Order no.	Type	Order no.
Safety bracket	21	STASI 3	732 045-001	STASI 3	732 045-001	STASI 3	732 045-001

STAK 5

STAKEI 5

STAKAP 5

STASI 3

 Sectional view,
refer to page 22

 Sectional view,
refer to page 22

Technical data

 Cable socket
with strain relief

Panel-mounted socket

Surface-mounted socket

 Safety bracket,
nickel-plated brass

5 + ⊕	5 + ⊕	5 + ⊕	
crimp	crimp	crimp	
1 cable socket, not assembled, 6 socket contacts RBC 162, in polythene bag	1 panel-mounted socket, not assembled, 6 socket contacts RBC 162, in polythene bag	1 surface-mounted socket, not assembled, 6 socket cont. RBC 162, 1 gasket in polythene bag	1 safety bracket
grey	grey	grey	nickel plated
STAS 5, STASEI 5	STAS 5, STASEI 5	STAS 5	All 3 + ⊕ and 5 + ⊕-pole connectors in series ST

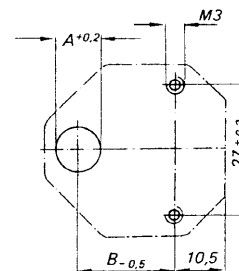
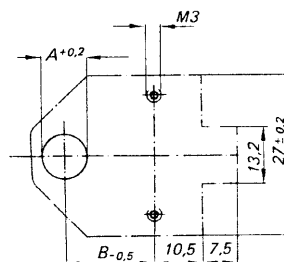
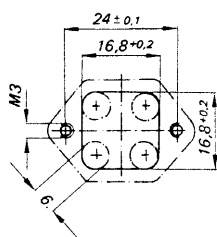
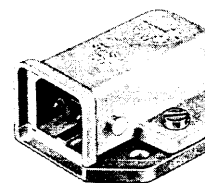
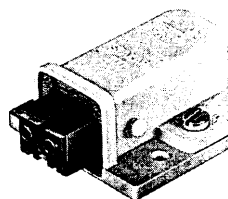
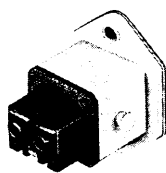
Order data

STAK 5	STAKEI 5	STAKAP 5	STASI 3
931 691-106	931 694-106	932 511-106	732 045-001
100 each	100 each	100 each	100 each

Accessories must be ordered separately

Type	Order no.	Type	Order no.	Type	Order no.
STASI 3	732 045-001	STASI 3	732 045-001	STASI 3	732 045-001

Survey
Sectional views
2-pole + ⊕



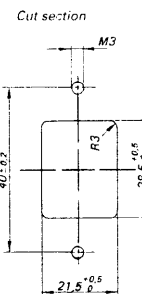
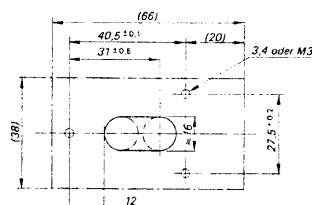
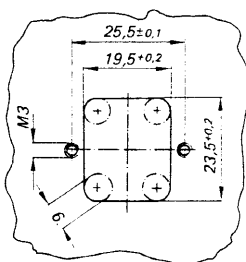
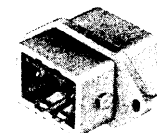
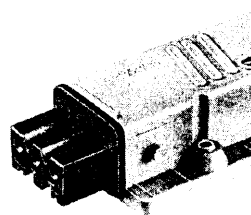
Sectional view for types

STAKEI 2
STASEI 2
STAKEI 200
STASEI 200

STAKAP 2	10	20
STAKAP 200	18	16
	A	B

STASAP 2	10	20
STASAP 200	18	16
	A	B

Survey
Sectional views
3-pole + ⊕ 5-pole + ⊕

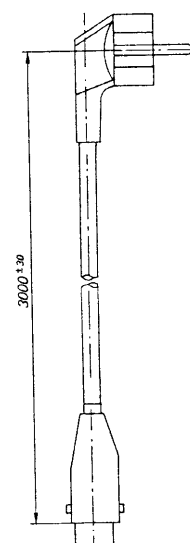
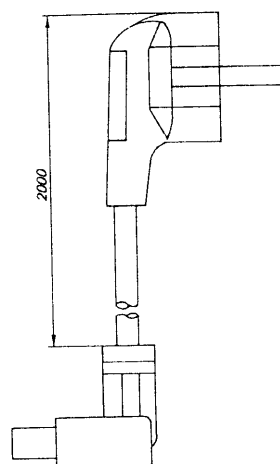
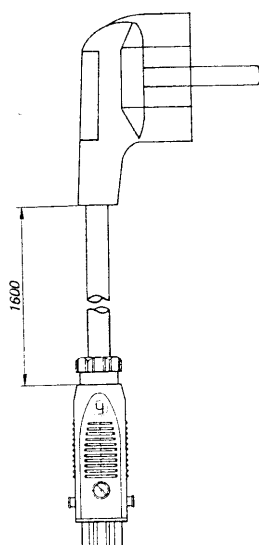
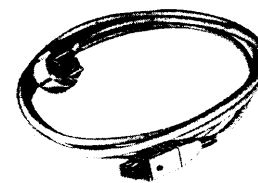
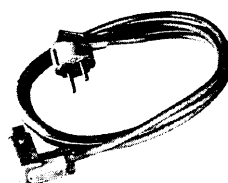
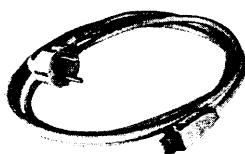


Sectional view for types

STAKEI 3
STAKEI 5
STASEI 3
STASEI 5

STASAP 3
STAKAP 3
STAKAP 5
STASAP 5

STASEI 3/2 SF 00
STASEI 3/2 SF 05

Power leads
STAK 200 NL
STAKWI 3/2 NL
STAK 3K NL


Technical data			
Design/ Description	Power lead with cable socket STAK 200 and connector R2 DIN 49 441	Power lead with cable socket STAKWI 3 and connector R2 DIN 49 441	Power lead with cable socket STAK 3 and connector R2 DIN 49 441
Number of poles	2 + ⊕	2 + ⊕	2 + ⊕
Pin assignment STAK/STAKWI	1, 2, ⊕	1, 3, ⊕	2, 3, ⊕
Scope of supply	1 power lead	1 power lead	1 power lead
Colour of casing	grey	grey	grey
Cable type/ cross-section	H03VV-F 3G 0.75 3 x 0,75 mm ²	H03VV-F 3G 0.75 3 x 0,75 mm ²	H05VV-F 3G 0.75 3 x 0,75 mm ²
Can be plugged into:	STAS 200, STASEI 200, STASAP 200	STAS 3, STASEI 3, STASAP 3, STASEI 3/2 SF..	STAS 3, STASEI 3, STASAP 3

Order data			
Type	STAK 200 NL	STAKWI 3/2 NL	STAK 3K NL
Order number	932 337-001	932 515-001	932 372-001
Quantity boxed	10 each	10 each	10 each