

1. General Data

Moisture-proof, splash-proof.
Non-corrosive.
Metal parts silver-plated and passivated.
Insulation: Teflon (P.T.F.E.).
Seals: silicone rubber.
Spring Contacts: beryllium bronze.
Centre Contacts: loose or captive.
Centre Contacts of crimp versions are protected against any axial movement (patent applied for).

Impedance

50 ohms and 75 ohms
50 ohms and 75 ohms connectors can be physically mated, where impedance-matching is not important.

Frequency Range:

with cable-entry construction type 1:
up to 4000 Mc/s
with cable-entry construction type 2:
up to 10000 Mc/s
with crimp version:
up to 10000 Mc/s

Operating Voltage: 1 kV max.
for higher voltages see series 'H2'

Temperature Limit: 480°F/250°C

Cable-Entry Sizes: .079".... .445" dia.
(2,0...11,3 mm)

2. Suitable Cables

Cable types Examples	Dielectric dia. inches	Screen number	Screen dia. inches	Sheath max. dia. inches	Suitable types 'TNC' connectors
RG-178 B/U, RG-196 A/U UR 94 G 01232-1, ...-2 G 01122, -1, ... K 01222, K 01232 K 01292	.034 (0,87 mm)	1	.055 (1,4 mm)	.087 (2,2 mm)	...TNC-50-1-...
RG-174/U, RG-179 B/U RG-187 A/U, RG-188 A/U RG-316/U UR 95 G 02232, -1, ... G 02233, K 02222 K 02223, K 02239/100 K 02292, K 02293 96 IEC-50-2-1	.059 (1,5 mm)	1	.079 (2,0 mm)	.118 (3,0 mm)	...TNC-50-2-...
RG-58 C/U, RG-141 A/U RG-142 A/U UR 72, UR 76 G 03232, -1, ... G 03233, -1, ... 96 IEC-50-3-1	.116 (2,95 mm)	1	.173 (4,4 mm) max.	.209 (5,3 mm)	...TNC-50-3-... ...TNC-75-3-...
RG-4/U, RG-55 A/U RG-223/U G 03232d, G 03233d 96 IEC-50-3-5	.116 (2,95 mm)	2	.165 (4,2 mm)	.236 (6,0 mm)	...TNC-50-3-...
RG-141 A/U-1 RG-303/U	.116 (2,95 mm)	1	.142 (3,6 mm)	.181 (4,6 mm)	...TNC-50-3-...
RG-59 B/U, RG-62 A/U RG-140/U, RG-210/U RG-302/U UR 90 G 04233-, ... K 04233 96 IEC-75-4-1	.146 (3,7 mm)	1	.177 (4,5 mm)	.252 (6,4 mm)	...TNC-50-4-... ...TNC-75-4-...
RG-71 B/U G 04233d, -1, ... 96 IEC-75-4-2	.146 (3,7 mm)	2	.205 (5,2 mm)	.272 (6,9 mm)	...TNC-50-4-...
RG-5 B/U, RG-6 A/U RG-143 A/U, RG-212/U RG-222/U, RG-304/U	.185 (4,7 mm)	2	.244 (6,2 mm)	.339 (8,6 mm)	...TNC-50-5-...
RG-11 A/U, RG-12 A/U RG-63 B/U, RG-79 B/U RG-144 A/U, RG-133 A/U RG-144/U, RG-149/U RG-150/U, RG-165/U RG-166/U, RG-213/U RG-215/U, RG-225/U-1 UR 57, UR 67 96 IEC-50-7-1 96 IEC-75-7-1	.285 (7,25 mm)	1	.319 (8,1 mm)	.425 (10,8 mm)	...TNC-50-7-...
RG-214/U, RG-216/U RG-225/U, RG-227/U 96 IEC-50-7-3 96 IEC-75-7-3	.285 (7,25 mm)	2	.343 (8,7 mm)	.445 (11,3 mm)	...TNC-50-7-...

FK Armour-Clamp

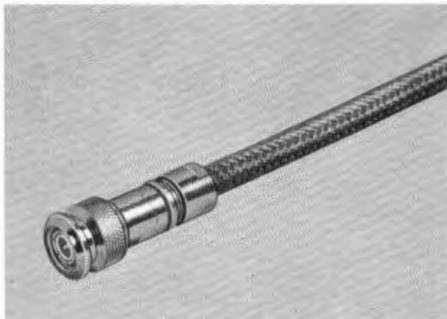
The FK armour-clamp permits a neat and functional fitting of 'TNC' connectors to armoured cables. The FK armour-clamp can be fitted to all connector bodies of type 2 (illustration 6).

The following FK armour-clamps are available:

FK 50 for armoured cable,
dia. over sheath .197" (5,0 mm) (G 03243)

FK 61 for armoured cable,
dia. over sheath .240" (6,1 mm) (G 04243)

6



11TNC-75-4-2 with FK 61

7



Crimp Tool for crimp connectors



Table Press for crimp connectors

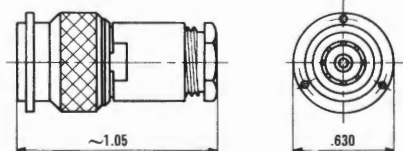
4. Tools

		Type number
Open-ended spanner	$\frac{3}{8}$ " for cable-entry construction type 1, material thickness .117" (3 mm)	74 Z-0-0-1
Open-ended spanner	.433"/11 mm for cable-entry construction type 2, material thickness .117" (3 mm)	74 Z-0-0-2
Open-ended spanner	.630"/16 mm for cable-entry construction type 2, material thickness .158" (4 mm) for connectors ...TNC-50-7-...	74 Z-0-0-3
Special tool	for FUK (illustration 5)	74 Z-0-0-4
Special tool	for GUK (illustration 5)	74 Z-0-0-5
Crimp tool	for crimp connectors, cable of .197" (5,0 mm) dia., die marking 2B, with fixed crimp dies	75 Z-0-3-1
Crimp tool	for crimp connectors, cable of .240" (6,1 mm) dia., die marking 2C, with fixed crimp dies	75 Z-0-4-1
Crimp tool	for crimp connectors, crimp dies interchangeable (without dies)	75 Z-0-0-1
Table press	for crimp connectors, crimp dies interchangeable (without dies)	75 Z-0-0-2
Crimp dies	suitable for crimp tool 75 Z-0-0-1 and for table press 75 Z-0-0-2 for inner conductor and screen	
	for cable .197" (5,0 mm) dia., die marking 2B	76 Z-0-3-1
	for cable .240" (6,1 mm) dia., die marking 2C	76 Z-0-4-1

Additional dies are in preparation

Plug 50 Ω

cable entry construction type 2



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
11TNC-50-1-2C			captive		.087	.034	1	RG-196 A/U	3005	with cylindrical gasket
11TNC-50-2-1C			captive		.118	.060	1	RG-188 A/U	3005	
11TNC-50-3-2C			captive		.209	.116	1	RG-58 C/U or	3005	
11TNC-50-3-3			loose		.209	.116	1	G 03233	3004	
11TNC-50-3-5C			captive		.236	.116	2	RG-223/U or	3005	
11TNC-50-3-6			loose		.236	.116	2	G 03233d	3004	
11TNC-50-3-7C			captive		.181	.116	1	RG-141 A/U-1	3005	with cylindrical gasket
11TNC-50-3-11C			captive		.209	.116	1	G 03233 HH low noise	3005	oil proof
11TNC-50-4-2C			captive		.252	.146	1	RG-59 B/U	3005	
11TNC-50-4-3			loose		.252	.146	1	RG-59 B/U	3004	
11TNC-50-4-5C			captive		.272	.146	2	G 04233d	3005	
11TNC-50-4-6			loose		.272	.146	2	G 04233d	3004	
11TNC-50-5-2			loose		.338	.189	2	RG-222 A/U	3004	with cylindrical gasket
11TNC-50-7-1C			captive		.425	.285	1	RG-213/U	3008	
11TNC-50-7-2C			captive		.425	.285	2	RG-214/U	3008	

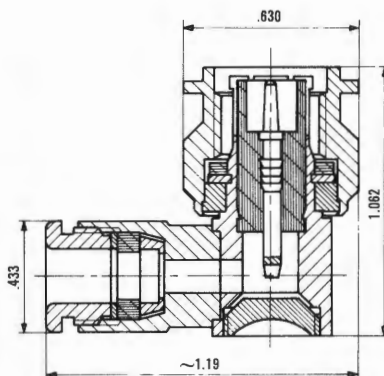
Plug 75 Ω

cable entry construction type 2

Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
11TNC-75-3-2C			captive		.209	.116	1	G 03233	3005	
11TNC-75-3-3			loose		.209	.116	1	G 03233	3004	
11TNC-75-4-2C			captive		.252	.146	1	RG-59 B/U	3005	
11TNC-75-4-3			loose		.252	.146	1	RG-59 B/U	3004	

Angle Plug 50 Ω

cable entry construction type 1
partly air-insulated



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
16TNC-50-3-1C			captive		.209	.116	1	RG-58 C/U G 03233	3006	
16TNC-50-4-1C			captive		.252	.146	1	RG-59 B/U	3006	

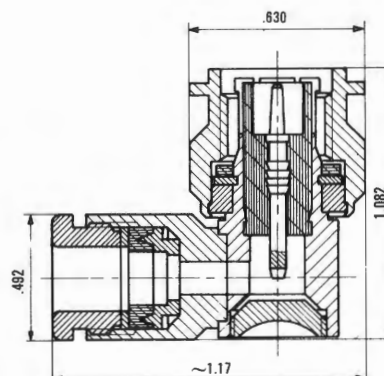
Angle Plug 75 Ω

cable entry construction type 1
partly air-insulated

Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
16TNC-75-3-1			captive		.209	.116	1	G 03233	3006	
16TNC-75-4-1			captive		.252	.146	1	RG-59 B/U	3006	

Angle Plug 50 Ω

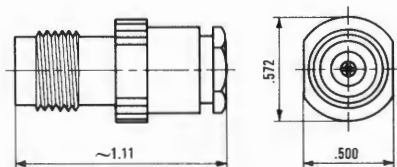
cable entry construction type 2
partly air-insulated



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
16TNC-50-3-2C			captive		.209	.116	1	RG-58 C/U G 03233	3024	
16TNC-50-4-2C			captive		.252	.146	1	RG-59 B/U	3024	

Jack 50 Ω

cable entry construction type 1



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressurized	cable			assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen example		
21TNC-50-3-1			loose		.209	.116	1 RG-58 C/U G 03233	3023	
21TNC-50-4-1			loose		.252	.146	1 RG-59 B/U	3023	

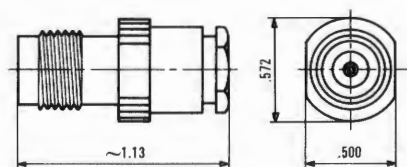
Jack 75 Ω

cable entry construction type 1

Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressurized	cable			assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen example		
21TNC-75-3-1			loose		.209	.116	1 G 03233	3023	
21TNC-75-4-1			loose		.252	.146	1 RG-59 B/U	3023	

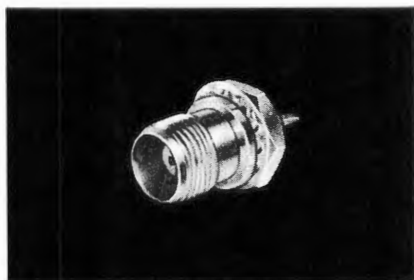
Jack 50 Ω

cable entry construction type 2

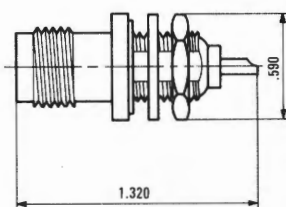


Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressurized	cable			assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen example		
21TNC-50-1-1C			captive		.087	.034	1 RG-196 A/U	3005	with cylindrical gasket
21TNC-50-2-2C			captive		.118	.060	1 RG-188 A/U	3005	
21TNC-50-3-2C			captive		.209	.116	1 RG-58 C/U or	3005	
21TNC-50-3-3			loose		.209	.116	1 G 03233	3004	
21TNC-50-4-2C			captive		.252	.146	1 RG-59 B/U	3005	
21TNC-50-4-3			loose		.252	.146	1 RG-59 B/U	3004	

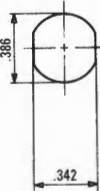
Bulkhead Receptacle 50 Ω



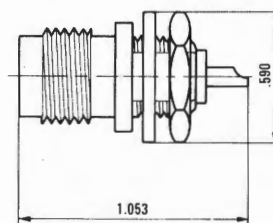
22TNC-50-0-1



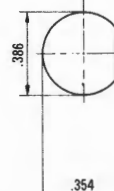
mounting hole



22TNC-50-0-2



mounting hole



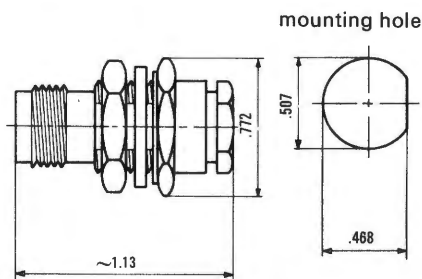
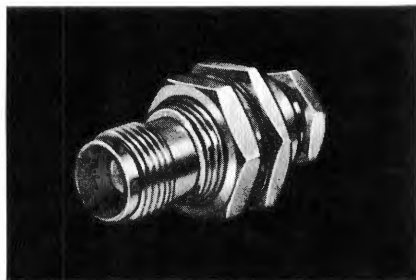
Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
22TNC-50-0-1				yes						panel thickness max. .256"
22TNC-50-0-2										panel thickness max. .059"
22TNC-50-0-4				yes						for insulated mounting panel thickness max. .197" mounting hole .452"
72Z-0-0-1										1-ended grounding lug see illustration 12TNC-50-0-1
72Z-0-0-2										2-ended groudng lug see illustration 27TNC-50-0-1

Bulkhead Receptacle 75 Ω

Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
22TNC-75-0-1				yes						panel thickness max. .256" mounting hole as 22TNC-50-0-1

Bulkhead Jack 50 Ω

cable entry construction type 2



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
24TNC-50-1-1C			captive	yes	.087	.034	1	RG-196 A/U	3005	panel thickness max. .138" with cylindrical gasket
24TNC-50-2-1C			captive	yes	.118	.060	1	RG-188 A/U	3005	
24TNC-50-3-1C			captive	yes	.209	.116	1	RG-58 C/U or	3005	panel thickness max. .138"
24TNC-50-3-2			loose		.209	.116	1	G 03233	3004	
24TNC-50-3-3C			captive	yes	.236	.116	2	RG-223/U or	3005	
24TNC-50-3-4			loose		.236	.116	2	G 03233d	3004	
24TNC-50-4-1C			captive	yes	.252	.146	1	RG-59 B/U	3005	
24TNC-50-4-2			loose		.252	.146	1	RG-59 B/U	3004	

Bulkhead Jack 75 Ω

cable entry construction type 2

Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
24TNC-75-3-1C			captive	yes	.209	.116	1	G 03233	3005	panel thickness max. .138"
24TNC-75-3-2			loose		.209	.116	1	G 03233	3004	
24TNC-75-4-1C			captive	yes	.252	.146	1	RG-59 B/U	3005	
24TNC-75-4-2			loose		.252	.146	1	RG-59 B/U	3004	

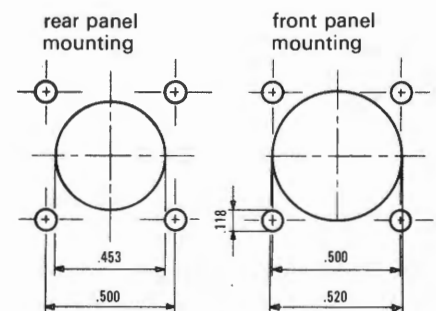
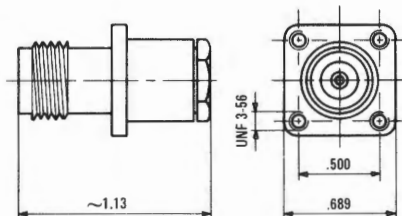
Panel Jack 75 Ω

cable entry construction type 1

Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
25TNC-75-3-1			loose		.209	.116	1	G 03233	3023	4 threaded holes UNF 3-56
25TNC-75-3-2			loose		.209	.116	1	G 03233	3023	4 clearance holes .122" dia.
25TNC-75-4-1			loose		.252	.146	1	RG-59 B/U	3023	4 threaded holes UNF 3-56
25TNC-75-4-2			loose		.252	.146	1	RG-59 B/U	3023	4 clearance holes .122" dia.

Panel Jack 50 Ω

cable entry construction type 2

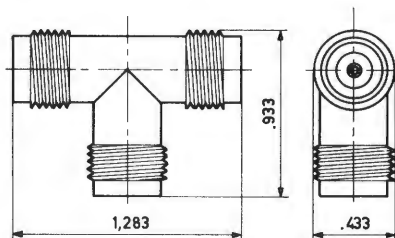
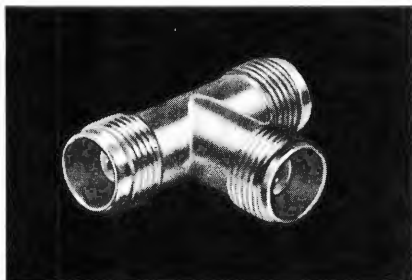


screws see page TNC.21

Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
25TNC-50-1-1C			captive		.087	.034	1	RG-196 A/U	3005	4 clearance holes .122" dia. with cylindrical gasket
25TNC-50-2-1C			captive		.118	.060	1	RG-188 A/U	3005	
25TNC-50-3-4C			captive		.209	.116	1	RG-58 C/U or	3005	4 clearance holes .122" dia.
25TNC-50-3-6			loose		.209	.116	1	G 03233	3004	
25TNC-50-3-9C			captive		.236	.116	2	RG-223/U or	3005	
25TNC-50-3-10			loose		.236	.116	2	G 03233d	3004	
25TNC-50-4-4C			captive		.252	.146	1	RG-59 B/U	3005	
25TNC-50-4-6			loose		.252	.146	1	RG-59 B/U	3004	
25TNC-50-3-3C			captive		.209	.116	1	RG-58 C/U or	3005	4 threaded holes UNF 3-56
25TNC-50-3-5			loose		.209	.116	1	G 03233	3004	
25TNC-50-3-7C			captive		.236	.116	2	RG-223/U or	3005	
25TNC-50-3-8			loose		.236	.116	2	G 03233d	3004	
25TNC-50-4-3C			captive		.252	.146	1	RG-59 B/U	3005	
25TNC-50-4-5			loose		.252	.146	1	RG-59 B/U	3004	

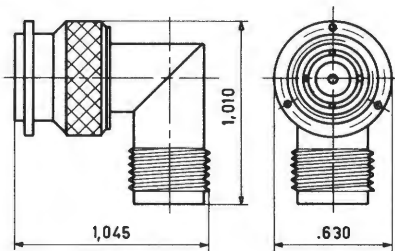
T-Adapter 50 Ω

3 $\times$ female



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressurized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
46TNC-50-0-1										

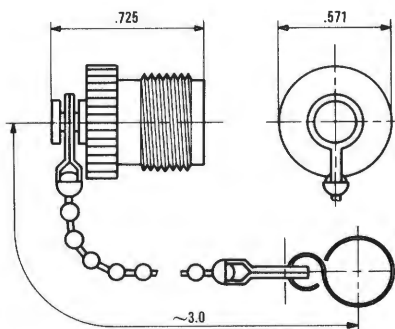
Angle Adapter 50 and 75 Ω



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressurized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
53TNC-50-0-1										50 Ω , male-female
53TNC-75-0-1										75 Ω , male-female

Cap

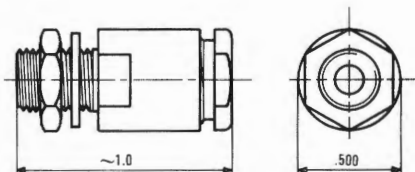
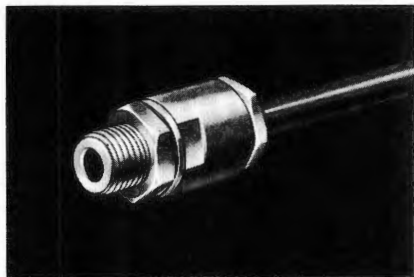
for male connectors



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressurized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
61TNC-0-0-1										with chain and ring

Cable Feed-Through

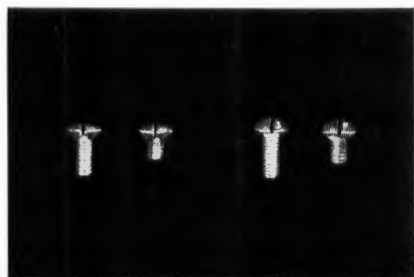
with cable entry construction type 2



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
71Z-0-3-3					.209	.116	1	RG-58 C/U G 03233	3004*	thread length .394" mounting hole .315" dia.
71Z-0-4-3					.252	.146	1	RG-59 B/U	3004*	
										* use dimensions for jacket and screen

Silvered Screws

thread UNF 3-56



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
73Z-0-0-1										round head, thread length .158"
73Z-0-0-2										round head, thread length .236"
73Z-0-0-3										counter-sunk lens-head thread length .158"
73Z-0-0-4										counter-sunk lens-head thread length .236"
73Z-0-0-8										round head thread length .276"

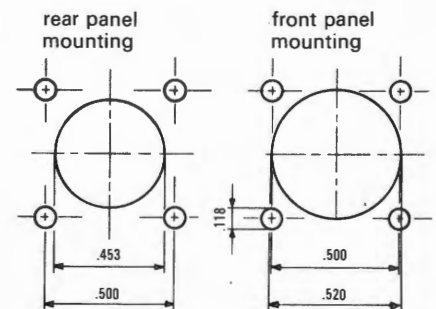
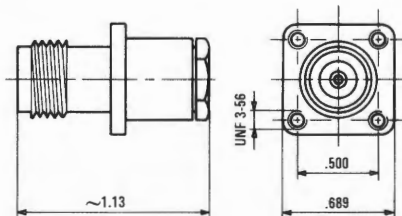
Panel Jack 75 Ω

cable entry construction type 1

Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressurized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
25TNC-75-3-1			loose		.209	.116	1	G 03233	3023	4 threaded holes UNF 3-56
25TNC-75-3-2			loose		.209	.116	1	G 03233	3023	4 clearance holes .122" dia.
25TNC-75-4-1			loose		.252	.146	1	RG-59 B/U	3023	4 threaded holes UNF 3-56
25TNC-75-4-2			loose		.252	.146	1	RG-59 B/U	3023	4 clearance holes .122" dia.

Panel Jack 50 Ω

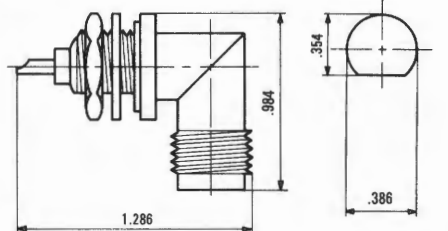
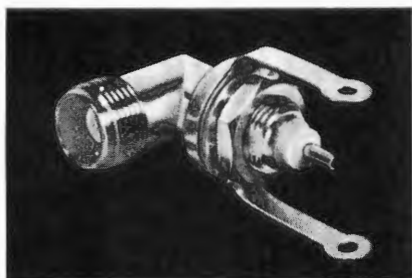
cable entry construction type 2



screws see page TNC.21

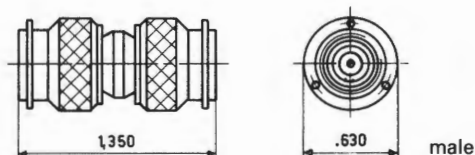
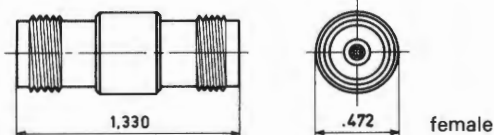
Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressurized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
25TNC-50-1-1C			captive		.087	.034	1	RG-196 A/U	3005	4 clearance holes .122" dia. with cylindrical gasket
25TNC-50-2-1C			captive		.118	.060	1	RG-188 A/U	3005	
25TNC-50-3-4C			captive		.209	.116	1	RG-58 C/U or	3005	4 clearance holes .122" dia.
25TNC-50-3-6			loose		.209	.116	1	G 03233	3004	
25TNC-50-3-9C			captive		.236	.116	2	RG-223/U or	3005	
25TNC-50-3-10			loose		.236	.116	2	G 03233d	3004	
25TNC-50-4-4C			captive		.252	.146	1	RG-59 B/U	3005	
25TNC-50-4-6			loose		.252	.146	1	RG-59 B/U	3004	
25TNC-50-3-3C			captive		.209	.116	1	RG-58 C/U or	3005	4 threaded holes UNF 3-56
25TNC-50-3-5			loose		.209	.116	1	G 03233	3004	
25TNC-50-3-7C			captive		.236	.116	2	RG-223/U or	3005	
25TNC-50-3-8			loose		.236	.116	2	G 03233d	3004	
25TNC-50-4-3C			captive		.252	.146	1	RG-59 B/U	3005	
25TNC-50-4-5			loose		.252	.146	1	RG-59 B/U	3004	

Angle Bulkhead Receptacle 50 Ω



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressurized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
27TNC-50-0-1				yes						panel thickness max. .138"
27TNC-50-0-2				yes						for insulated mounting panel thickness max. .079" mounting hole .452"
72Z-0-0-1										1-ended grounding lug see illustration 12TNC-50-0-1
72Z-0-0-2										2-ended grounding lug

Straight Adapter 50 and 75 Ω



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressurized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
31TNC-50-0-1										50 Ω , female
31TNC-75-0-1										75 Ω , female
32TNC-50-0-1										50 Ω , male
32TNC-75-0-1										75 Ω , male