

1. General Data

Non-corrosive.
Metal parts silver-plated and passivated.
Insulation: Teflon (P.T.F.E.).
Gaskets for sealed cable-entry:
silicone rubber.
Female contacts: beryllium bronze.
Centre contacts captive.

Impedance: 50 ohms and 75 ohms electrically matched.

In order to obtain correct electrical matching it is imperative to mate only connectors of the same impedance.

Application

Especially suitable for connections between installation-units and internally in instruments and equipments.

Frequency Range: up to 10000 Mc/s.

Operating Voltage: up to 500 V max.

Temperature Limit: 480°F/250°C.

Cable-Entry Sizes: .181"252" dia.
(4,6...6,4 mm)

2. Suitable Cables

Cable types Examples	Dielectric dia. inches	Screen dia. inches	Sheath max. dia. inches	Suitable types 'M' connectors
RG-141/U-1 RG-303/U	.116 (2,95 mm)	.157 (4,0 mm)	.177 (4,5 mm)	...M-50-3-...
RG-141 A/U RG-142 A/U RG-142 A/U-1 RG-58 C/U RG-140/U-1 UR 76 RG-223/U* G03232 G03233 G03233d* 96 IEC-50-3-1	.116 (2,95 mm)	.173 (4,4 mm) max.	.197* (5,0 mm)*	...M-50-3-... ...M-75-3-...
RG-59 B/U RG-140/U RG-62 A/U UR90 G04233-1 96 IEC-75-4-1	.146 (3,7 mm)	.173 (4,4 mm) max.	.252 (6,4 mm)	...M-75-4-...

*.232" (5.9 mm) for crimp version and jacks

3. Cable-Entry Construction

Cable-Entry Construction with screw sleeve (fixed)

The cable is gripped by the threaded ferrule into which the cable-sheath is screwed. The braid is soldered directly to the connector body.

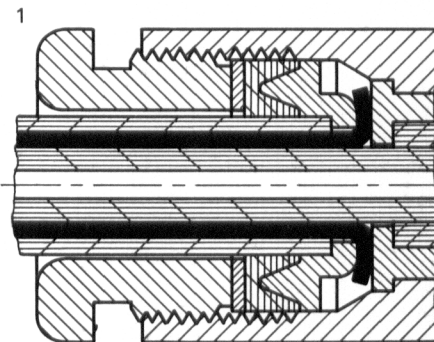
Cable-Entry Construction, consisting of a sealed cable-entry unit

The cable-entry construction with a sealed cable-entry unit ensures a reliable and non-ageing clamping of the cable. When fitting the cable-entry nut, the V-groove silicone rubber gasket is split by a clamp and is pressed laterally against the cable jacket and the connector body. The braid is pressed over the clamp on to the connector body.

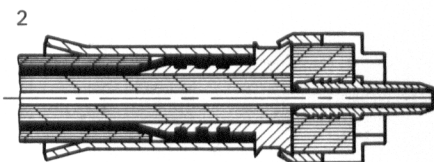
Some connector types have a cylindrical gasket. They are clearly marked in the catalog lists. This execution can be combined with the tear-proof and twist-proof FUK cable-entry construction, as well as with the FK armour-clamp. (see e.g. series BNC).

Crimp Version

The correct crimping tool crimps the cable screen between the connector body and a separate outer ferrule. Suitable tools are available for this purpose (see 4.). Considerable saving of assembly time compared with conventional connector assemblies.



Cable-entry construction with sealed cable-entry unit



Crimp version

4. Tools

		Type number
Crimp tool	for crimp connectors, cable dia. .197" (5,0 mm), die marking 2B	75 Z-0-3-1
Crimp tool	for crimp connectors, cable dia. .240" (6,1 mm), die marking 2C	75 Z-0-4-1
Crimp tool	for crimp connectors, for interchangeable crimp dies (without dies)	75 Z-0-0-1
Table press	for crimp connectors, for interchangeable crimp dies (without dies)	75 Z-0-0-2
Crimp dies	for crimp tool and for table press	
	for cables dia. .197" (5,0 mm), die marking 2B	75 Z-0-3-1
	for cable dia. .406" (6,1 mm), die marking 2C	75 Z-0-4-1



Crimp tool

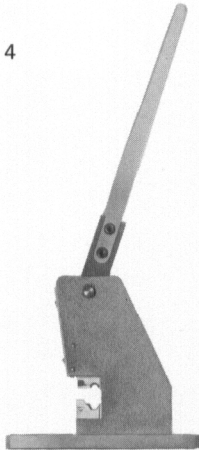
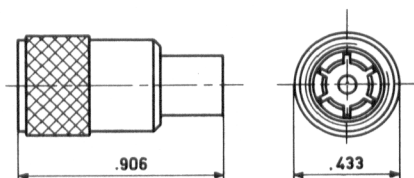
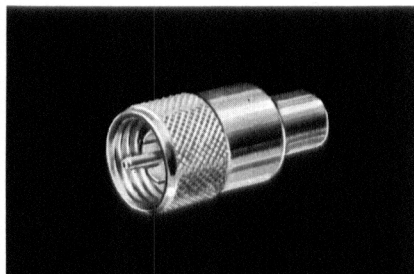


Table press

Plug 50 Ω

cable entry with screw sleeve



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		
11M-50-3-2C		5935-99- 999-5347	captive		.201	.116	1	RG-58 C/U RG-141 A/U	3026	
11M-50-3-3C			captive		.229	.116	2	RG-223/U	3026	
11M-50-3-4C			captive		.178	.116	1	RG-141 A/U-1	3026	

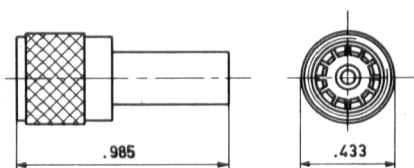
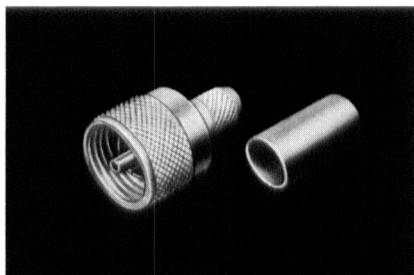
Plug 75 Ω

cable entry with screw sleeve

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		
11M-75-3-2C		5935-99- 911-6882	captive		.201	.116	1	G 03233	3026	
11M-75-4-2C		5935-99- 580-3573	captive		.248	.146	1	RG-59 B/U	3026	

Plug 50 Ω

crimp version



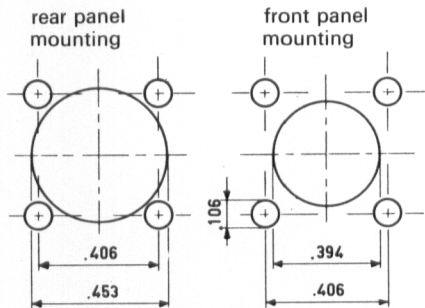
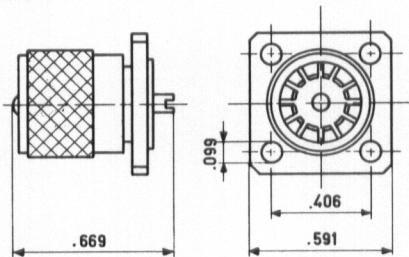
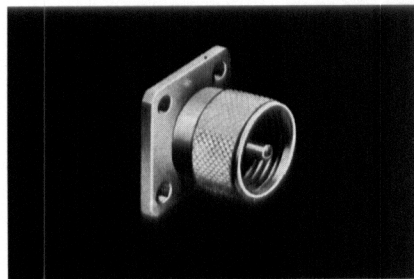
Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
11M-50-3-1C			captive		.209	.116	1	RG-58 C/U	3018	tools: 75 Z-0-3-1, 76 Z-0-3-1 die marking B
11M-50-3-6C			captive		.228	.116	2	RG-223/U	3018	

Plug 75 Ω

crimp version

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		
11M-75-3-1C			captive		.209	.116	1	G 03233	3018	tools: 75 Z-0-3-1, 76 Z-0-3-1 die marking B
11M-75-3-3C			captive		.228	.116	2	G 03233d	3018	
11M-75-4-1C			captive		.252	.146	1	RG-59 B/U	3018	tools: 75 Z-0-4-1, 76 Z-0-4-1 die marking C
11M-75-4-3C			captive		.272	.146	2	G 04233d	3018	

Male Panel Receptacle 50 Ω



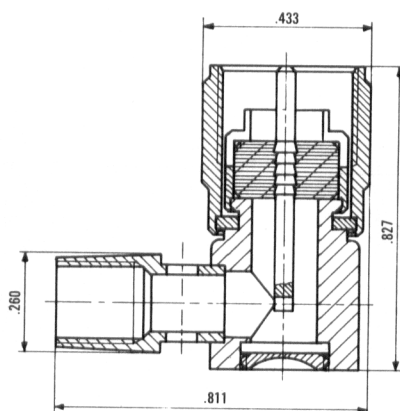
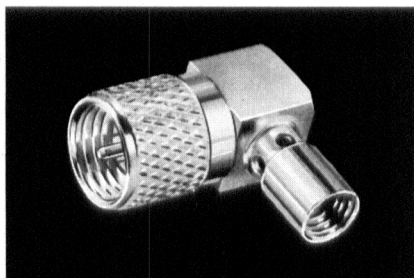
Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
13M-50-0-1										

Male Panel 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		
13M-75-0-1										

Angle Panel 50 Ω

cable entry with screw sleeve



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		
16M-50-3-1C			captive		.201	.116	1	RG-58 C/U RG-141 A/U	3027	

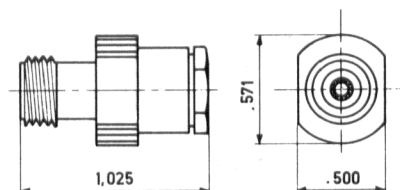
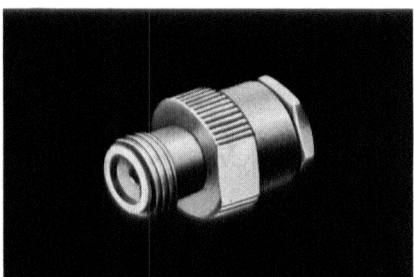
Angle Plug 75 Ω

cable entry with screw sleeve

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		
16M-75-3-1C			captive		.201	.116	1	G 03233	3027	
16M-75-4-1C			captive		.248	.146	1	RG-59 B/U	3027	

Jack 50 Ω

with sealed cable entry unit



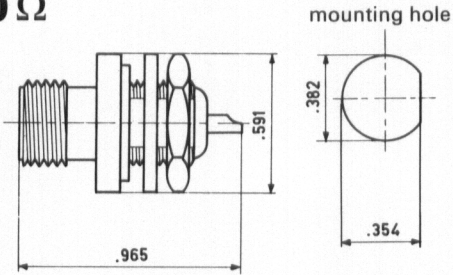
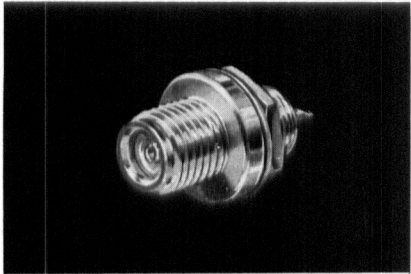
Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
21M-50-3-1C			captive		.209	.116	1	RG-58 C/U	3005	
21M-50-3-2C			captive		.236	.116	2	RG-223/U	3005	
21M-50-3-3C			captive		.181	.116	1	RG-141A/U-1	3005	with cylindrical gasket

Jack 75 Ω

with sealed cable entry unit

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		
21M-75-3-1C			captive		.209	.116	1	G 03233	3005	
21M-75-4-1C			captive		.252	.146	1	RG-59 B/U	3005	

Bulkhead Receptacle 50 Ω

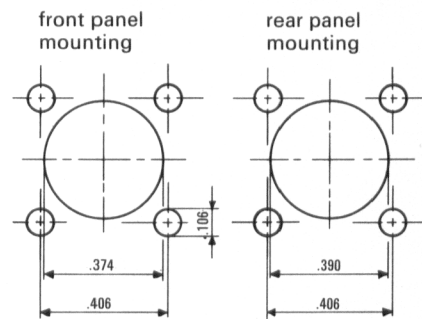
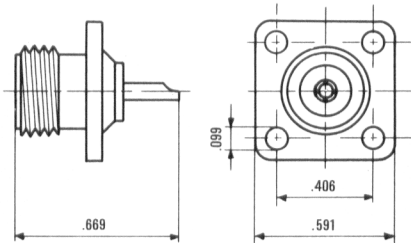
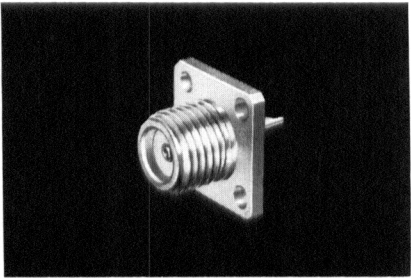


Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
22M-50-0-1				yes						panel thickness max. .177"

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		
22M-75-0-1				yes						panel thickness max. .177"

Panel Receptacle 50 Ω



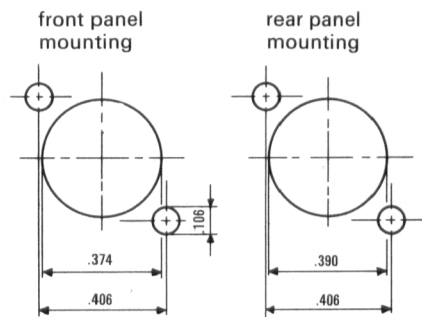
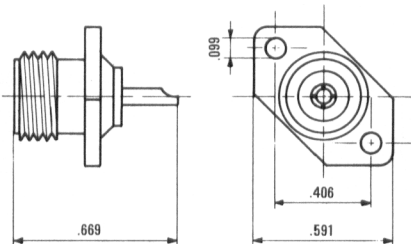
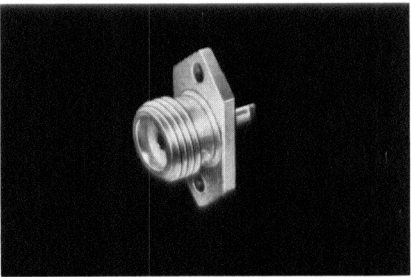
Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
23M-50-0-3										
23M-50-0-4				yes						with flange gasket

Panel 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		
23M-75-0-1		5935-99- 911-6607								
23M-75-0-2				yes						with flange gasket

Panel Receptacle 50 Ω

with narrow flange



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		
23M-50-0-5										
23M-50-0-6				yes						with flange gasket

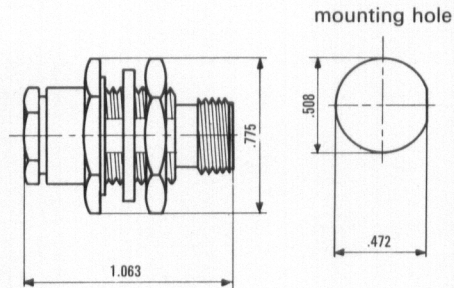
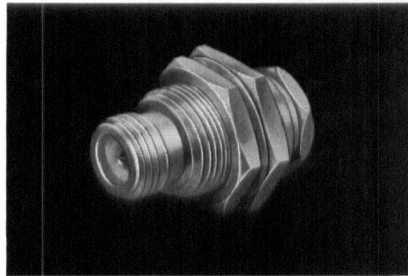
Panel Receptacle 75 Ω

with narrow flange

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		
23M-75-0-3										
23M-75-0-4				yes						with flange gasket

Bulkhead Jack 50 Ω

with sealed cable entry unit



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		
24M-50-3-1C			captive	yes	.209	.116	1	RG-58 C/U	3005	panel thickness max. .138"
24M-50-3-2C			captive	yes	.236	.116	2	RG-223/U	3005	
24M-50-3-3C			captive	yes	.181	.116	1	RG-141A/U-1	3005	panel thickness max. .138" with cylindrical gasket

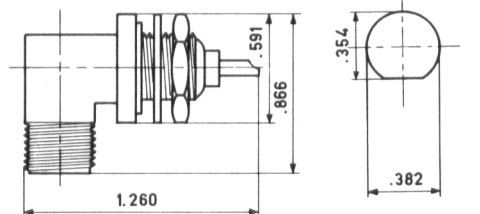
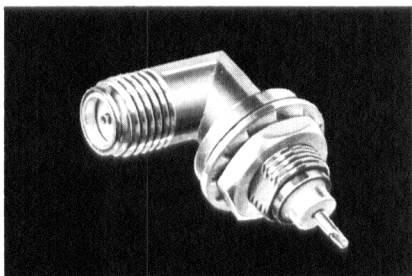
Bulkhead Jack 75 Ω

with sealed cable entry unit

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		
24M-75-3-1C			captive	yes	.209	.116	1	G 03233	3005	panel thickness max. .138"
24M-75-4-1C			captive	yes	.252	.146	1	RG-59 B/U	3005	

Bulkhead Receptacle 50 Ω

right angle



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressurized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
27M-50-0-1				yes						panel thickness max. .157"

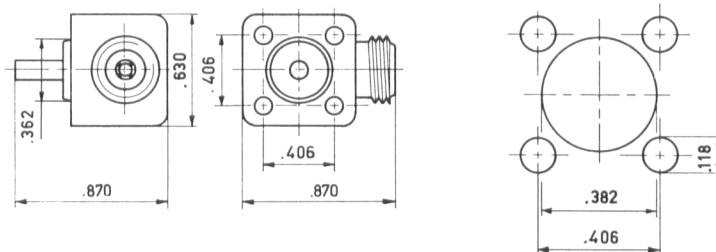
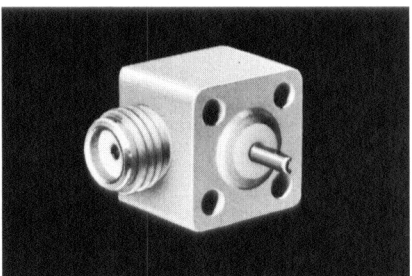
Bulkhead Receptacle 75 Ω

right angle

Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressurized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
27M-75-0-1		5935-99-920-9260		yes						panel thickness max. .157"

Panel Receptacle 50 Ω

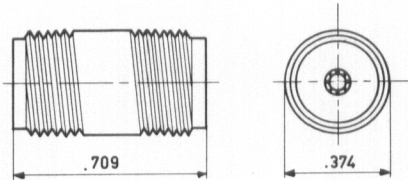
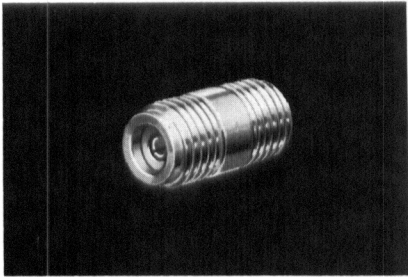
right angle



Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressurized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
28M-50-0-1										50 Ω
28M-50-0-1										75 Ω

Straight Adapter 50 Ω

female



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		
31M-50-0-1										

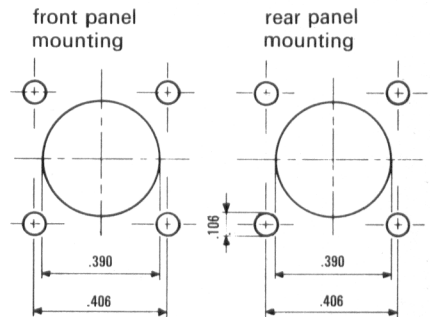
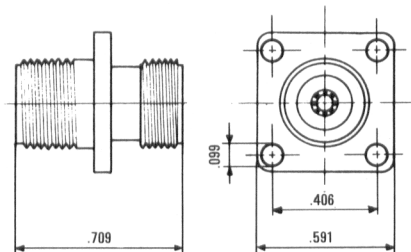
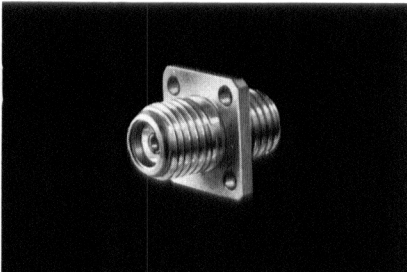
Straight Adapter 75 Ω

female

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		
31M-75-0-1										

Panel Adapter 50 Ω

female



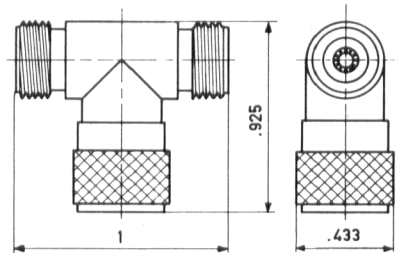
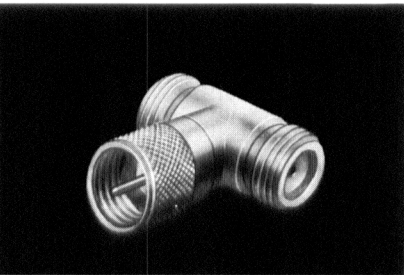
Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
37M-50-0-1										
37M-50-0-2				yes						with flange gasket

Panel Adapter 75 Ω

female

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		
37M-75-0-1										
37M-75-0-2				yes						with flange gasket

T-Adapter 50 Ω

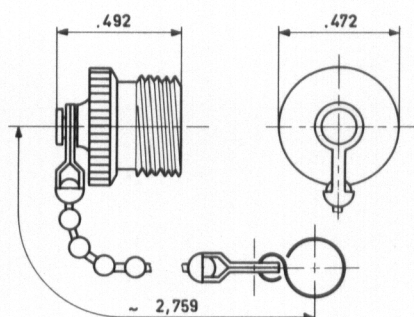
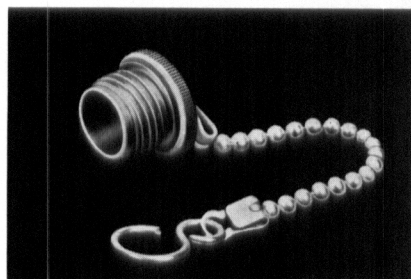


Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
43M-50-0-1										2 × female, 1 × male
46M-50-0-1										3 × female

T-Adapter 75 Ω

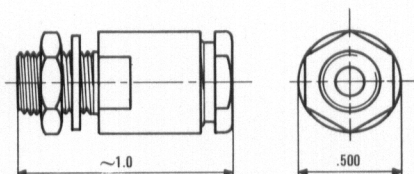
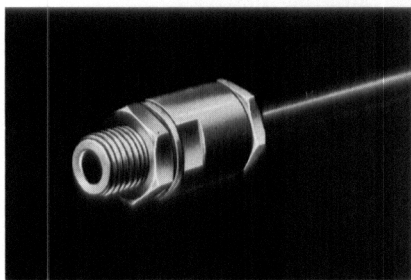
Suhner Type	US-MIL-Type	NATO Type equivalent	centre contact	pressur- ized	cable				assembly instruction number	notes
					dia. max. in	dielectric dia. in	screen	example		
43M-75-0-1										2 × female, 1 × male
46M-75-0-1										3 × female

Cap



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		
61M-0-0-1										for male connectors with chain and ring
62M-0-0-1										for female connectors with chain and end clip

Cable Feed-Through



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-0-3-4					.236	.116	2	RG-223/U	3004*	
71Z-0-3-5					.181	.116	1	RG-141A/U-1	3004*	
71Z-0-4-3					.252	.146	1	RG-59 B/U	3004*	
										* use dimensions for jacket and screen

Between Series Adapters

"M 50 Ω male" means
that the adapter's M-end
is male.

Suhner Type	from	to
33M-UHF-0-1	M 50 Ω male	→ UHF female
33UHF-M-0-1	M 50 Ω female	→ UHF male
31M-UHF-0-1	M 50 Ω female	→ UHF female
32M-UHF-0-1	M 50 Ω male	→ UHF male
33M-UHF-0-2	M 75 Ω male	→ UHF female
33UHF-M-0-2	M 75 Ω female	→ UHF male
31M-UHF-0-2	M 75 Ω female	→ UHF female
32M-UHF-0-2	M 75 Ω male	→ UHF male
33M-N-50-1	M 50 Ω male	→ N 50 Ω female
33N-M-50-1	M 50 Ω female	→ N 50 Ω male
31M-N-50-1	M 50 Ω female	→ N 50 Ω female
32M-N-50-1	M 50 Ω male	→ N 50 Ω male
33M-N-75-1	M 75 Ω male	→ N 75 Ω female
33N-M-75-1	M 75 Ω female	→ N 75 Ω male
31M-N-75-1	M 75 Ω female	→ N 75 Ω female
32M-N-75-1	M 75 Ω male	→ N 75 Ω male
33M-BNC-50-1	M 50 Ω male	→ BNC 50 Ω female
33BNC-M-50-1	M 50 Ω female	→ BNC 50 Ω male
31BNC-M-50-1	M 50 Ω female	→ BNC 50 Ω female
32BNC-M-50-1	M 50 Ω male	→ BNC 50 Ω male
33M-BNC-75-1	M 75 Ω male	→ BNC 75 Ω female
33BNC-M-75-1	M 75 Ω female	→ BNC 75 Ω male
31BNC-M-75-1	M 75 Ω female	→ BNC 75 Ω female
32BNC-M-75-1	M 75 Ω male	→ BNC 75 Ω male
33M-C-50-1	M 50 Ω male	→ C 50 Ω female
33C-M-50-1	M 50 Ω female	→ C 50 Ω male

Suhner Type	from	to
31C-M-50-1	M 50 Ω female	→ C 50 Ω female
32C-M-50-1	M 50 Ω male	→ C 50 Ω male
33M-C-75-1	M 75 Ω male	→ C 75 Ω female
33C-M-75-1	M 75 Ω female	→ C 75 Ω male
31C-M-75-1	M 75 Ω female	→ C 75 Ω female
32C-M-75-1	M 75 Ω male	→ C 75 Ω male
33M-J-75-1	M 75 Ω male	→ J 75 Ω female
33J-M-75-1	M 75 Ω female	→ J 75 Ω male
31J-M-75-1	M 75 Ω female	→ J 75 Ω female
32J-M-75-1	M 75 Ω male	→ J 75 Ω male
33M-K-50-1	M 50 Ω male	→ K 50 Ω female
33K-M-50-1	M 50 Ω female	→ K 50 Ω male
31M-K-50-1	M 50 Ω female	→ K 50 Ω female
32M-K-50-1	M 50 Ω male	→ K 50 Ω male
33M-SC-50-1	M 50 Ω male	→ SC 50 Ω female
33SC-M-50-1	M 50 Ω female	→ SC 50 Ω male
31M-SC-50-1	M 50 Ω female	→ SC 50 Ω female
32M-SC-50-1	M 50 Ω male	→ SC 50 Ω male
33M-TNC-50-1	M 50 Ω male	→ TNC 50 Ω female
33TNC-M-50-1	M 50 Ω female	→ TNC 50 Ω male
31M-TNC-50-1	M 50 Ω female	→ TNC 50 Ω female
32M-TNC-50-1	M 50 Ω male	→ TNC 50 Ω male
33M-TNC-75-1	M 75 Ω male	→ TNC 75 Ω female
33TNC-M-75-1	M 75 Ω female	→ TNC 75 Ω male
31M-TNC-75-1	M 75 Ω female	→ TNC 75 Ω female
32M-TNC-75-1	M 75 Ω male	→ TNC 75 Ω male