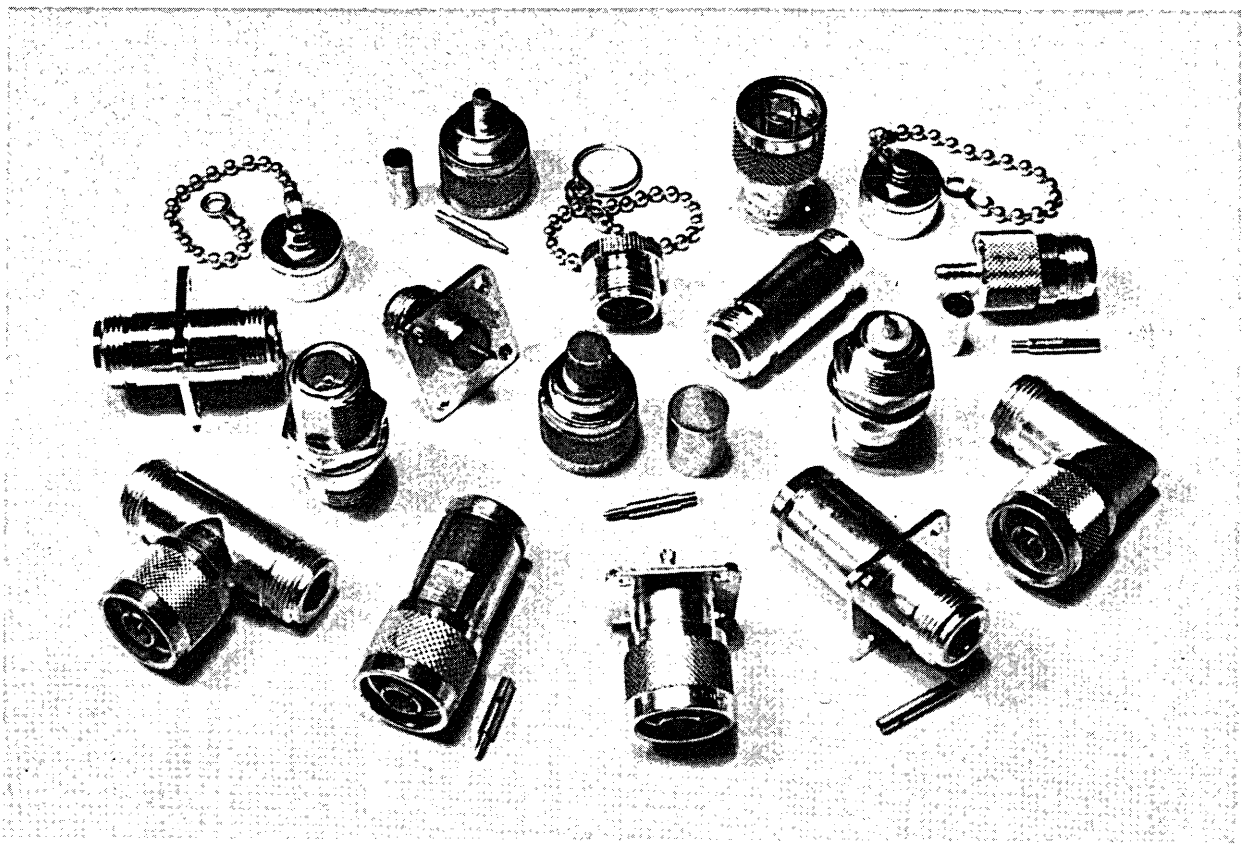
SUHNER RF-Connectors

Series N



HUBER+SUHNER LTD CH-9100 Herisau/Switzerland

N Coaxial Connectors

Introduction

Thanks to the screw coupling mechanism, coaxial RF connectors of the N series are sturdy and precise. The SUHNER N programme offers, available in most cases from stock, a complete assortment for 50 and 75 Ω.

Technical data

Impedance*	50 and 75 Ω
Frequency range	DC . . . 10 GHz
Insertion loss	
11 N, 21 N, 24 N, 25 N . .	0.15 dB
16 N . .	0.3 dB
Operating voltage	1 kV eff./50 Hz
Dielectric withstanding voltage	2.5 kV eff./50 Hz
Insulation resistance	5000 MΩ min.
Contact resistance	before/after corrosion test
– inner contact	
11 N, 21 N, 24 N, 25 N . .	1.0 /1.15 mΩ max.
16 N . .	2.5 /3.0 mΩ max.
– outer contact	0.2 /– mΩ max.
– screen-body	0.05/– mΩ max.
Temperature range	–65 . . . +165°C
Pull-out force inner contact (inner contact captive)	2.72 kp/min.
Cable diameter range	4.6 . . . 22.5 mm
Cable holding force	
– clamped cable entry	34.0 kp/min.
– crimped cable entry	
cable dia. 3.9 . . . 4.8 mm	22.5 kp/min.
4.8 . . . 5.8 mm	27.0 kp/min.
5.8 . . . 6.3 mm	34.0 kp/min.
larger than 6.3 mm	40.0 kp/min.

* The accurate impedance matching to 50 or 75 Ω requires different diameters for the inner conductors. For this reason, 50 and 75 Ω connectors cannot be coupled together. The appropriate impedance identification is engraved on the connector body.

Surface finish

All metal parts, with the exception of the gold plated inner contacts, are galvanically treated with high quality SUCOPLATE®. On request, N connectors are also available in silver-, nickel-, and gold-plating.

SUCOPLATE® has been specially developed as a protection for RF-connectors; it thus provides optimum characteristics:

Corrosion resistance	SUCOPLATE® meets all MIL-C-39012 requirements.
Conductivity	compares more than favourably with conventional methods of galvanically applied coatings.
RF compatibility	relative permeability $\mu r = 1$ (non-magnetic) hence low RF losses.
Electrolytic potential	between stainless steel and nickel. SUCOPLATE® can be brought into contact with these metals as well as with brass, aluminium, silver and gold.
Pleasing appearance	resistant to tarnishing and scratching
Long working life	high abrasion resistance; a multiple of that given by conventional nickel plate or silver plate finishes.
Even plating deposit	in holes and over edges.
Solderability	at normal temperatures and with usual fluxes.

Construction

Material

Body and cable entry	brass
Female inner contacts	beryllium-bronze
Outer contacts	spring bronze
Other contacts	brass
Crimp ferrule	copper
Gaskets	Silicon rubber
Insulators	PTFE

Standard types are heat resistant up to 250°C

Special radiation resistant types:
nuclear radiation resistant to 10^9 rad
heat resistant up to 70°C or 200°C

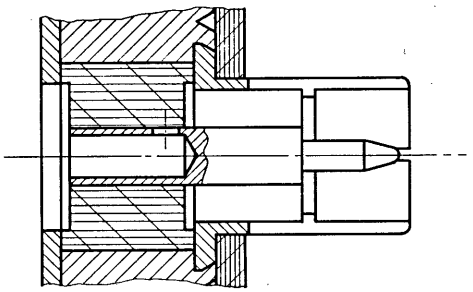
Coupling mechanism

Locking sleeve with 5/8 in. thread for low-reflection contact and tight mechanical fit (full description of thread: 5/8 in. 24-UNF 2B).
By the inadvertent connection of 50 and 75 Ω units, the springs of the female inner contact often were damaged. The new SUHNER design of female inner contacts prevent such misconnection and thus avoid contact damage.
Dimensions correspond with MIL-C-39012.

Inner contacts (pins and sockets)

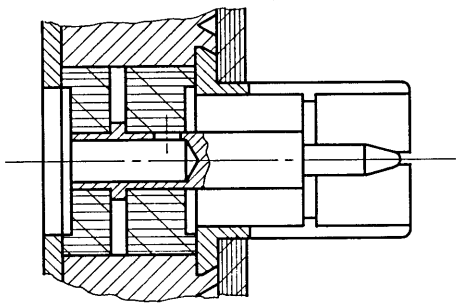
The programme includes the following 3 types, as illustrated:

Inner contact loose, soldered



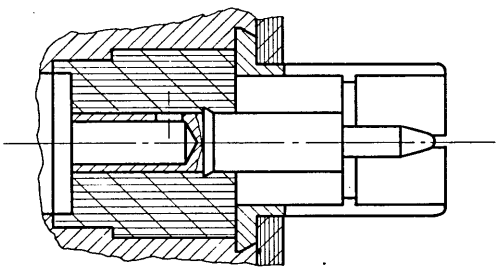
Example: 11 N-50-7-3

Inner contact captive, soldered



Example: 11 N-50-7-4c

Inner contact captive, crimped



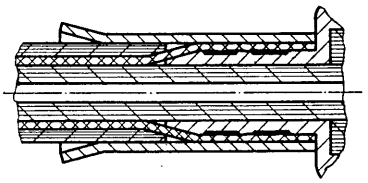
Example: 11 N-50-7-23c

All captive inner contact types are designated with the letter «c».

Cable entries

N connectors are available with 2 different cable entry systems:

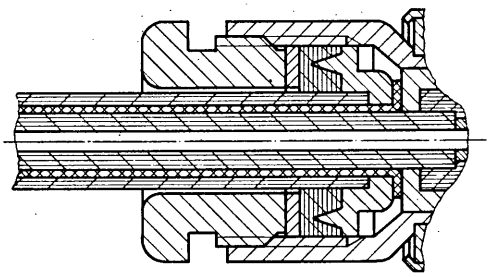
Crimped cable entry



The crimping procedure applies both to the centre contact and to the cable screen. Specially designed crimping tools allow economical batch assembly, ensuring outstanding mechanical and electrical quality. Taper sleeves are available in 10 colours: they are fitted by pushing them over the crimp ferrule from the cable side.

Assembly recommendations see page N 7
Tools see page N 8

Clamped cable entry type 2



In this system the screen and sheath are secured by applying pressure onto the cable braid and sheath; the inner contact is soldered.

In type 2 connector bodies with clamped cable entry, additional special entries can be fitted.
Into the connector body for cable entry type 2, further special cable entries can be fitted:

Special parts for clamped cable entries

Under «accessories» at the end of Series N (page N 28) cable entry components of the following types are listed:
FUK, GUK and FK for extreme mechanical forces and for armoured cables.

Important:
Where the remark «with cylindrical gasket» is inserted in the catalogue section (pages N 11 to N 30), the cable entry will be supplied with such a gasket.

Coding key

11 N - 50 - 7 - 4 c / 133

- 133 — code for surface plating
- c — index letter c, denotes fully captive inner contact
- 4 — type variation (continuous)
- 7 — diameter over insulation, rounded to nearest mm
- 50 — impedance
- N — RF connector series
- 11 — connector function (see table on page N 4)

Code for surface plating

11 N - 50 - 7 - 4 c / **1 3 3**

- 3 — surface finish for connector body and cable entry parts
- 3 — surface finish of outer contact
- 1 — surface finish of inner contact

0 = passivated silver
1 = hard gold
2 = nickel
3 = SUCOPLATE®
9 = special

The standard finish for SUHNER N connectors is SUCOPLATE® for the body and outer contact parts and hard gold for the inner contacts. It is only necessary to mention the plating code when a special finish is required.

Insulation diameter

Ø rounded mm	Ø standard mm
3	2.95
4	3.7
5	4.8
7	7.25
9	9.4
12	11.5
17	17.0
0	for connectors without cable entries

Impedance

0 unmatched
50 matched to 50 Ω
75* matched to 75 Ω

* for 75 Ω N-connectors the explanation on page N 1 applies

Between-Series Adaptors

The adaptor units between the N and other series are listed in the Series N appendix.

Special connectors

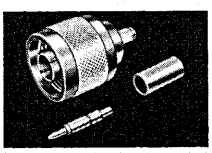
Our extensive experience in the development, construction and production of RF-connectors and components enables us to solve your coaxial connector problems such as:

entries for special cables
pressurized or vacuum-tight connectors
oil-tight connectors
special connector body designs
connectors from special materials, etc.

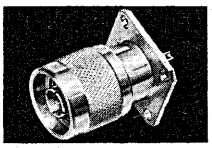
Connector Function Coding

1. Connector, male (plug)

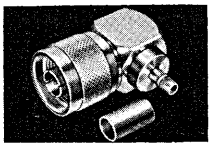
11 straight cable entry



13 straight chassis flange

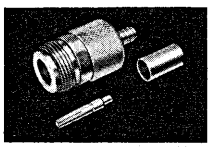


16 angle cable entry

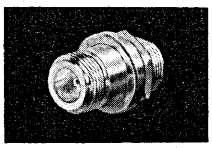


2. Connector, female (jack)

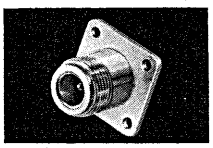
21 straight cable entry



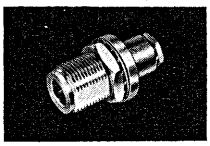
22 straight chassis bulkhead (1-hole fixing)



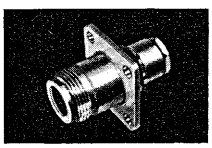
23 straight chassis flange



24 straight cable entry chassis bulkhead (1-hole fixing)

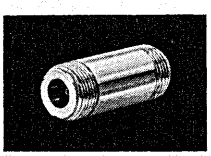


25 straight cable entry chassis flange

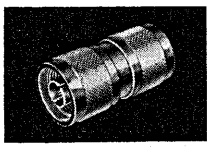


3. Straight Adaptors Between-Series Adaptors

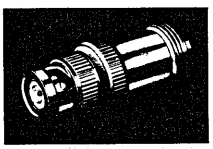
31 free female–female



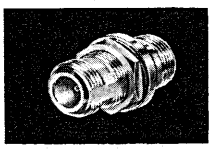
32 free male–male



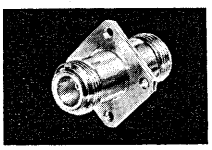
33 free male–female



34 chassis bulkhead female–female

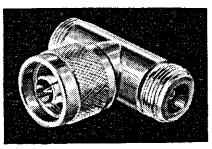


37 chassis flange female–female

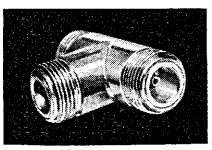


4. T-Adaptors

43 free male, female–female

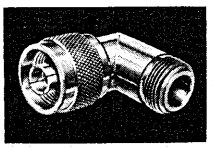


46 free female–female female



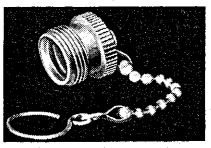
5. Angle Adaptors

53 free male–female

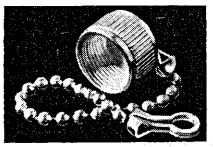


6. Caps, Short-circuits Resistor terminations

61 cap for plug

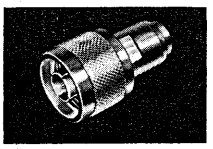


62 cap for jack



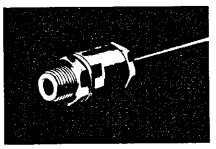
64 short-circuit for jack

65 resistor termination



7. Accessories lead

71 cable feed-through



Standards

MIL standards

US-MIL specifications for N connectors and adaptors were originally laid down in the form of piece part specifications. As a result the revisions became unmanageable. The present MIL-C-39012, applicable to the N-series, are performance specifications. They only lay down exact dimensions for mating faces as well as test specifications, production standards and external dimensions. The well-known UG-types are thus replaced by corresponding MIL-C-39012 connectors which in addition no longer specify the 75 Ω range. The mechanical and electrical quality standards of the old UG-types are maintained in connectors manufactured to MIL-C-39012 and are guaranteed without any restrictions.

Additional standards
N-connectors are also standardised to the French CCTU requirements.
Standard numbers: CCTU 10-02

Important
To prevent serious delays in order processing, the equivalent SUHNER type number should be given together with the US-MIL type, if possible.

US-MIL/SUHNER equivalents

New MIL-type	SUHNER type	Former MIL-type
MIL-C-39012/01-0001	11 N-50-5-2	UG 18../U
/01-0002	11 N-50-7-5	UG 21../U
/01-0003	11 N-50-9-2	UG 204../U
/01-0004	11 N-50-17-1	UG 167../U
/01-0005	11 N-50-7-6c	UG 1185../U
/01-0007	11 N-50-7-23c	
/01-0008	11 N-507-24c	
/02-0002	21 N-50-7-7	UG 23../U
/02-0003	21 N-50-7-8c	UG 1186../U
/02-0004	25 N-50-5-2c	UG 19../U
/02-0005	25 N-50-7-7	UG 22../U
/02-0006	25 N-50-7-8c	UG 1187../U
/02-0008	21 N-50-7-13c	
/02-0009	21 N-50-7-14c	
/02-0016	25 N-50-7-13c	
/02-0017	25 N-50-7-14c	
/03-0001	24 N-50-5-2	UG 159../U
/03-0012	24 N-50-7-8c	UG 160../U
/03-0004	24 N-50-7-14c	
/03-0005	24 N-50-7-15c	
/04-0001	22 N-50-0-2 similar to	UG 680../U
/04-0002	23 N-50-0-1	UG 58../U
/05-0001	16 N-50-7-9c	UG 594../U
/05-0002	16 N-50-7-12c	
/05-0003	16 N-50-7-13c	

Former MIL-type	SUHNER-type	New MIL-type*
UG 18 E/U	11 N-50-5-2	39012/01-0001
UG 19 F/U	25 N-50-5-2c	39012/02-0004
UG 20 E/U	21 N-50-5-1	
UG 21 D/U	11 N-50-7-3 similar to	
UG 21 G/U	11 N-50-7-5	39012/01-0002
UG 22 G/U	25 N-50-7-7	39012/02-0005
UG 23 G/U	21 N-50-7-7	39012/02-0002
UG 27 B/U	53 N-50-0-1	
UG 28 A/U	46 N-50-0-1	
UG 29 A/U	31 N-50-0-1	
UG 29 B/U	31 N-50-0-2	
UG 30 E/U	34 N-50-0-1 similar to	
UG 57 B/U	32 N-50-0-1	
UG 58 B/U	23 N-50-0-1	39012/04-0002
UG 83 B/U	33 UHF-N-0-1	
UG 91 A/U	11 N-75-5-1 similar to	
UG 92 A/U	21 N-75-5-1 similar to	
UG 93 A/U	25 N-75-5-1 similar to	
UG 94 A/U	11 N-75-7-1 similar to	
UG 95 A/U	21 N-75-7-5 similar to	
UG 96 A/U	25 N-75-7-5 similar to	
UG 107 B/U	43 N-50-0-1	
UG 146 A/U	33 N-UHF-0-1	
UG 159 D/U	24 N-50-5-2	39012/03-0001
UG 160 E/U	24 N-50-7-8c	39012/03-0002
UG 167 F/U	11 N-50-17-1	39012/01-0004
UG 201 A/U	33 N-BNC-50-1	
UG 204 D/U	11 N-50-9-2	39012/01-0003
UG 318/U	32 N-UHF-0-1	
UG 349 B/U	33 BNC-N-50-1	
UG 536 B/U	11 N-50-3-1	
UG 556 B/U	24 N-50-3-10c	
UG 564/U	33 N-C-50-1	
UG 565 A/U	33 C-N-50-1	
UG 593 A/U	25 N-50-4-2c	
UG 594 C/U	16 N-50-7-9c	39012/05-0001
UG 602 A/U	21 N-50-4-1	
UG 603 A/U	11 N-50-4-1	
UG 606/U	31 BNC-N-50-1	
UG 680 A/U	22 N-50-0-2 similar to	39012/04-0001
UG 1034/U	32 BNC-N-50-1	
UG 1095 B/U	25 N-50-3-3	
UG 1185 A/U	11 N-50-7-6c	39012/01-0005
UG 1186 B/U	21 N-50-7-8c	39012/02-0003
UG 1187 B/U	25 N-50-7-8c	39012/02-0006
MX 1684/U	71 Z-0-3-3	

* This List contains only the US-MIL types which conform exactly to the corresponding SUHNER-type.

Suitable cables

You will find a suitable cable connector in our N-range if the dimensions of your cable are similar to those listed below.

Type of cable example	Specification	Nom. imp. Ω	inner conductor			Insulation		Screen			Sheath	
			Material	Construction	Dia. mm	Material	Dia. mm	Number	Material	Dia. mm	Material	Dia. mm
RG 58 C/U	MIL	50	Sn	19×0.18	0.9	PE	2.95	1	Sn	3.6	PVC II	4.95
RG 223/U	MIL	50	Ag	wire	0.89	PE	2.95	2	AgAg	4.2	PVC II	5.3
RG 141 A/U	MIL	50	CuStAg	wire	0.96	PTFE	2.95	1	Ag	3.6	PTFE + GSi	4.8
RG 142 B/U	MIL	50	CuStAg	wire	0.96	PTFE	2.95	2	AgAg	4.35	FEP	4.95
SR 3*		50	CuStAg	wire	0.91	FEP	3.0	1	Cu	3.58	–	–
G 03233	SUHNER	75	Cu	7×0.16	0.48	PE	2.95	1	Cu	3.6	PVC II	5.0
G 03233-d	SUHNER	75	Sn	wire	0.47	PE	2.95	2	AgAg	4.2	PVC II	5.3
RG 59 B/U	MIL	75	CuSt	wire	0.6	PE	3.7	1	Cu	4.5	PVC II	6.1
G 04233-d	SUHNER	75	CuSt	wire	0.6	PE	3.7	2	AgAg	5.3	PVC II	6.7
RG 6 A/U	MIL	75	CuSt	wire	0.72	PE	4.7	2	AgCu	6.2	PVC II	8.45
G 05233	SUHNER	75	Cu	7×0.25	0.75	PE	4.7	1	Cu	5.6	PVC II	7.4
RG 222/U	MIL	50	CrNi	wire	1.4	PE	4.7	2	AgAg	6.3	PVC II	8.5
RG 213/U	MIL	50	Cu	7×0.75	2.25	PE	7.25	1	Cu	8.1	PVC II	10.3
RG 214/U	MIL	50	Ag	7×0.75	2.25	PE	7.25	2	AgAg	8.7	PVC II	10.8
RG 165/U	MIL	50	Ag	7×0.82	2.46	PTFE	7.25	1	Ag	8.05	PTFE + GSi	10.4
RG 216/U	MIL	75	Sn	7×0.4	1.2	PE	7.25	2	CuCu	8.7	PVC II	10.8
RG 144/U	MIL	75	CuStAg	7×0.455	1.365	PTFE	7.25	1	Ag	8.38	PTFE + GSi	10.4
RG 11 A/U	MIL	75	Sn	7×0.4	1.2	PE	7.25	1	Cu	8.1	PVC II	10.3
SR 7*		50	Ag	wire	2.1	PE	7.35	1	Cu	8.25	–	–
RG 217/U	MIL	50	Cu	wire	2.7	PE	9.4	2	CuCu	11.2	PVC II	13.8
G 12232	SUHNER	50	Cu	7×1.13	3.39	PE	11.5	1	Cu	12.4	PVC II	15.0
RG 34 B/U	MIL	75	Cu	7×0,62	1.86	PE	11.5	1	Cu	12.4	PVC II	16.0
RG 218/U	MIL	50	Cu	wire	5.0	PE	17.3	1	Cu	18.6	PVC II	22.0
RG 164/U	MIL	75	Cu	wire	2.65	PE	17.3	1	Cu	18.6	PVC II	22.0

* Semi-rigid copper tube cables are supplied without plastic sheath. On request, the outer surface can be silver or gold-plated.

Cu	plain copper
CuCu	double-braiding plain copper
CuSt	copper-covered steel wire
CuStAg	copper-covered steel wire, silver-plated
CrNi	chromium-nickel wire
Sn	tinned copper wire
Ag	silver-plated copper wire
AgAg	double-braiding silver-plated copper

PVC II	non-migrating PVC
PE	polyethylene
PTFE	polytetrafluorethylene
FEP	fluorethylenepropylene
GSI	fibreglass braided and silicone varnish impregnated

Cable comparison list (dimensionally similar, not identical)

			SUHNER	MIL-C-17D U.S.A.	BS 2316 U.K.	VG 95216 Germany	CCTU 10-01A France	NATO	IEC
Impedance Ω	Dielectric dia. mm	No. of sheats	Type	Type	Type	Type	Type	Type	Type
50	2.95	1	RG 58 C/U	RG 58 C/U	URM 43	P 0.9 L/3	KX 15	NWR 2	96 IEC-50-3-1
50	2.95	2	RG 223/U	RG 223/U					96 IEC-50-3-5
50	2.95	1	RG 141 A/U	RG 141 A/U		T 0.9 M/3		NWR 9	96 IEC-50-3-7
50	2.95	2	RG 142 B/U	RG 142 B/U				NWR 25	
50	3.0	1	SR 3	M 17/130-1					
75	2.95	1	G 03233						
75	2.95	2	G 03233-d						
75	3.7	1	RG 59 B/U	RG 59 B/U	URM 90		KX 6 A	NWR 11	96 IEC-75-4-3
75	3.7	2	G 04233-d						96 IEC-75-4-2
75	4.6	2	RG 6 A/U	RG 6 A/U					
75	4.6	1	G 05233						
50	4.7	2	RG 222/U	RG 222/U					
50	7.25	1	RG 213/U	RG 213/U	URM 67	P 2 L/7	KX 4	NWR 1	96 IEC-50-7-1
50	7.25	2	RG 214/U	RG 214/U	URM 112		KX 13	NWR 35	96 IEC-50-7-3
50	7.25	1	RG 165/U	RG 165/U		T 2 L/7		NWR 10	96 IEC-50-7-8
75	7.25	2	RG 216/U	RG 216/U	URM 60				96 IEC-75-7-3
75	7.25	1	RG 144/U	RG 144/U				NWR 16	96 IEC-75-7-11
75	7.25	1	RG 11 A/U	RG 11 A/U	URM 303		KX 8	NWR 3	96 IEC-75-7-1
50	7.35	1	SR 7						
50	9.4	2	RG 217/U	RG 217/U					
50	11.5	1	G 12232						96 IEC-50-12-1
75	11.5	1	RG 34 B/U	RG 34 B/U					
50	17.3	1	RG 218/U	RG 218/U	URM 74	P 5 M/17	KX 14	NWR 5	96 IEC-50-17-1
75	17.3	1	RG 164/U	RG 164/U	URM 77			NWR 6	96 IEC-75-17-1

Lead assemblies

We have an efficient lead assembly department, conversant with all problems of connector fitting. Completed assemblies can be supplied in cable/connector types and lengths as selected. On request, specified electrical lengths and reflections can be tested and guaranteed.

Quality control and testing

Raw materials, piece parts and complete connectors are continuously supervised by rigorous quality controls. Our control laboratories are equipped with the most modern equipment for electrical, mechanical and climatic testing. Tests are conducted to the relevant standards.

Technical advisory service

RF cables and connectors are a functionally integral part of electronic and communication equipment and systems. The specifications should therefore be laid down and the materials to be used specified in the planning stage of new projects. Our agencies and technical sales engineers will be glad to assist you in the selection of the most suitable cables and connectors to meet your requirements.

Assembly tips

Assembly instructions, with exact cable stripping dimensions and assembly sequence are available for each type of connector. The relevant assembly instruction number is shown in our delivery programme (pages 11–30).

The following general rules should be observed in order to achieve optimum assembly performance.

1. Only use well-sharpened cutting tools.
2. Cut back cable sheath and cable insulation exactly perpendicular to cable axis.
3. Do not comb out or damage braid and inner conductor.
4. Observe the correct sequence when assembling cable entry parts.

Soldering

1. Use a soldering iron with a temperature of about 240 °C. The power should be adapted to the connector size (100–300 W). Fix centre pin in heat-insulating soldering jig.
2. Use Sn/Pb 60/40 solder with activated colophonium. Keep pin surface free of excess tin. Remove soldering flux with alcohol.

Crimping

1. When crimping a stranded conductor, see that all strands are inside the centre pin.
2. Push centre pin against cable insulation before crimping.
3. Crimp indent on centre pin should be as close as possible to cable insulation.
4. Crimp ferrule should abut connector body. Crimp as close to connector body as possible.

Tools

Fig.		Ordering code
1	Spanner 11 mm, 3 mm thick	**74Z-0-0-2**
1	Spanner 16 mm, 4 mm thick	**74Z-0-0-3**
2	Key spanner for FUK cable entry	**74Z-0-0-4**
2	Key spanner for GUK cable entry	**74Z-0-0-5**
3	Taper sleeve fitting tool (3 mm sleeve)	**74Z-0-3-1**
3	Taper sleeve fitting tool (4 mm sleeve)	**74Z-0-4-1**
4	Soldering jig	**74Z-0-0-10**
5	Cable stripping jig	**74Z-0-0-11**
6	Large crimp tool for interchangeable inserts, without inserts	**75Z-0-0-1**
6	Support plate for bench mounting	**76Z-0-0-3**
7	Table press	**75Z-0-0-2**
8	Large crimp tool complete with all interchangeable inserts and support plate	
	in cardboard box	**76Z-0-0-14**
	in wood box	**76Z-0-0-15**
8	Crimp inserts suitable for crimp tool 75Z-0-0-1 and table press 75Z-0-0-2	
	for cables with dielectric dia. 2.95 mm insert 2B colour code orange	**76Z-0-3-1**
	for cables with dielectric dia. 3.7 mm insert 2C colour code yellow	**76Z-0-4-1**
	for cables with dielectric dia. 7.25 mm insert 3D colour code violet	**76Z-0-7-1**
	Cutting insert for cables with sheath dia. up to 12 mm	**76Z-0-0-1**
	Replacement blades for cutting insert	**76Z-0-0-2**
9	Small hand crimp tool with fixed insert 2B, in cardboard box	**75Z-0-3-2**
	Small hand crimp tool with fixed insert 2C, in cardboard box	**75Z-0-4-2**
	Small hand crimp tool with fixed insert 2B, in wood box	**75Z-0-3-3**
	Small hand crimp tool with fixed insert 2C, in wood box	**75Z-0-4-3**

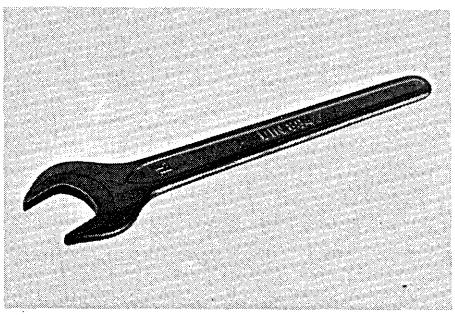


Fig. 1

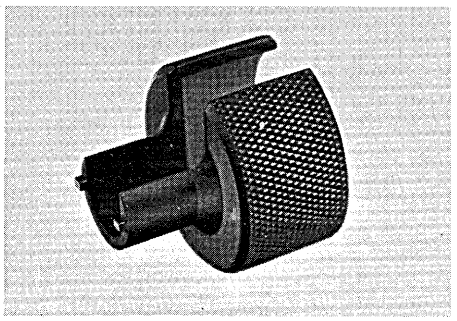


Fig. 2

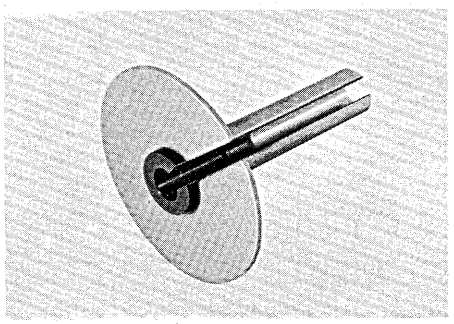


Fig. 3

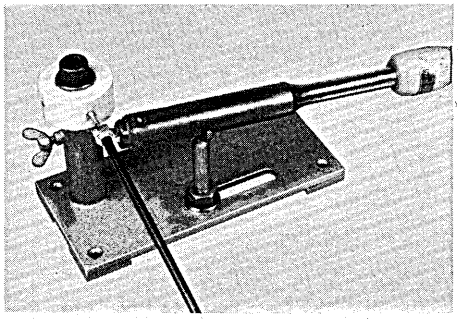


Fig. 4

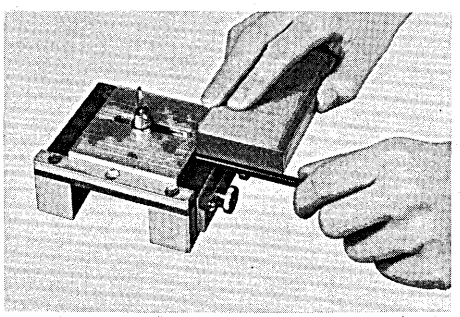


Fig. 5

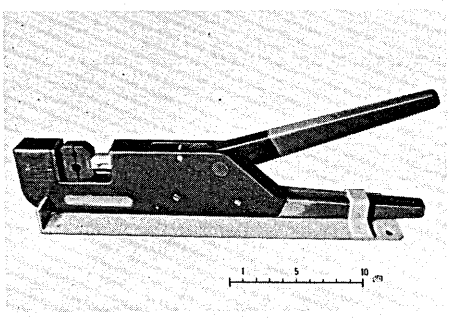


Fig. 6

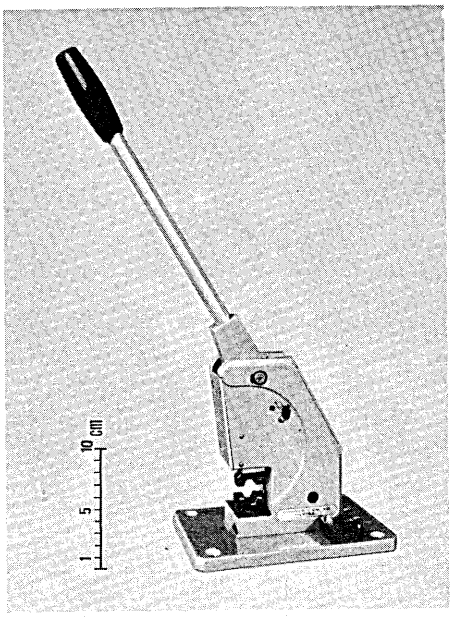


Fig. 7

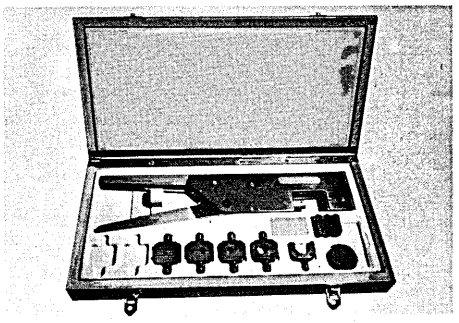


Fig. 8

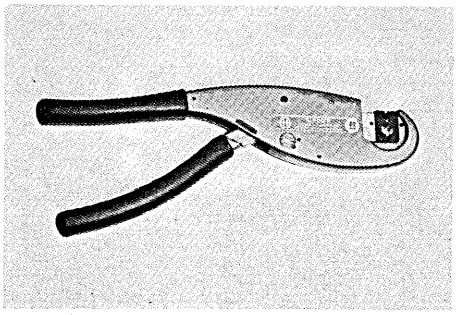
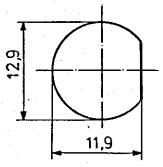


Fig. 9

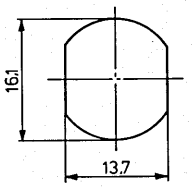
Fixing holes

N-chassis connectors are available for two different types of mounting:

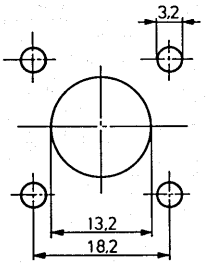
Square flange	for 4-hole mounting	mounting hole: ML 13, 14, 16, 17, 18
Round flange	for 1-hole mounting	mounting hole: ML 4, 12



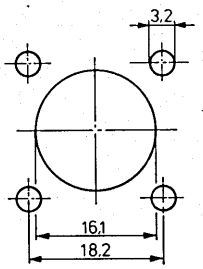
ML 4



ML 12

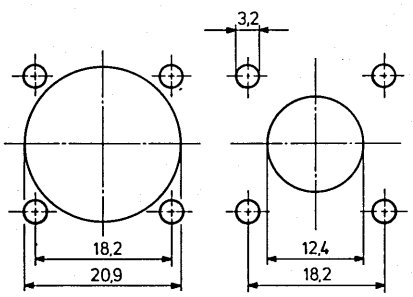


ML 13



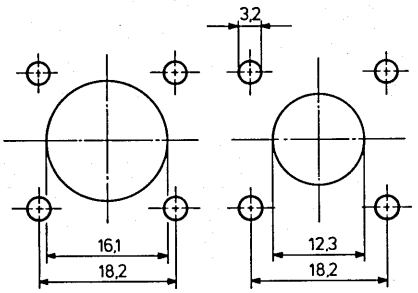
ML 14

rear mounting front mounting



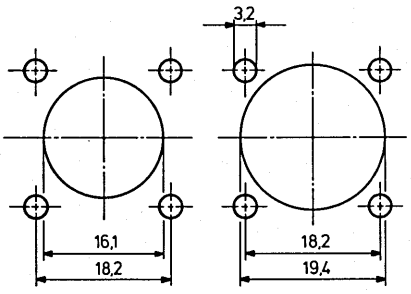
ML 16

rear mounting front mounting



ML 17

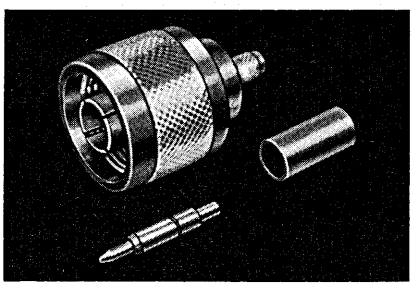
rear mounting front mounting

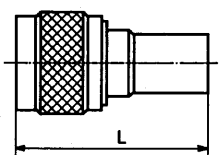


ML 18

Cable Plug 50 Ω

Full crimp





Coloured taper sleeves available for crimp sizes 2B and 2C

SUHNER type	US-MIL-type	suitable cable			assembly instructions	suitable crimping tool see N 8 crimp insert	L~mm	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)				
11 N-50-3-8c		2.95	1	RG 58 C/U	3063	2 B	36	
11 N-50-3-9c		2.95	2	RG 223/U	3063	2 B	36	
11 N-50-7-23c	39012/01-0007	7.25	1	RG 213/U	3061	3 D	38	in the MIL-type the inner contact is not captivated
11 N-50-7-24c	39012/01-0008	7.25	2	RG 214/U	3061	3 D	38	in the MIL-type the inner contact is not captivated

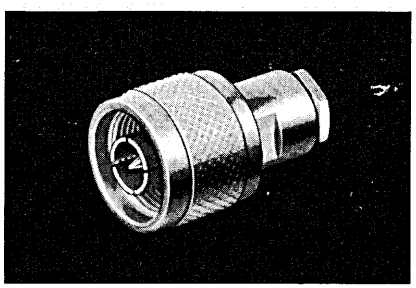
Cable Plug 75 Ω

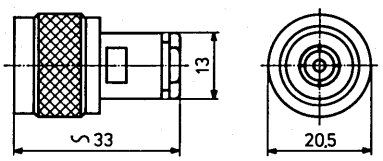
Full crimp

SUHNER type	US-MIL-type	suitable cable			assembly instructions	suitable crimping tool see N 8 crimp insert	L~mm	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)				
11 N-75-4-8c		3.7	1	RG 59 B/U	3063	2 C	36	
11 N-75-4-9c		3.7	2	G 04233-d	3063	2 C	36	
11 N-75-7-16c		7.25	1	RG 11 A/U	3061	2 D	38	special insert
11 N-75-7-18c		7.25	2	RG 216/U	3061	2 D	38	special insert

Cable Plug 50 Ω

Clamped cable entry
Reduced body diameter





SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
11 N-50-3-1	UG 536 B/U	2.95	1	RG 58 C/U	3016	
11 N-50-3-2c		2.95	1 2	RG 58 C/U RG 142 B/U	3017	
11 N-50-3-3c		2.95	1	RG 141 A/U	3017	with cylindrical gasket
11 N-50-3-4		2.95	2	RG 223/U	3016	
11 N-50-3-5c		2.95	2	RG 223/U	3017	
11 N-50-3-11		3.0		SR 3	3056	Copper-sheathed cable (semi-rigid)
11 N-50-4-1	UG 603 A/U	3.7	1	RG 59 B/U (75 Ω)	3016	
11 N-50-4-2c		3.7	1	RG 59 B/U (75 Ω)	3017	
11 N-50-4-3c		3.7	2	G 04233-d (75 Ω)	3017	

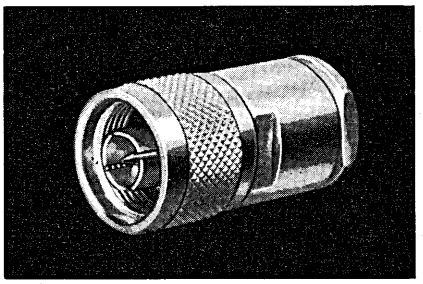
Cable Plug 75 Ω

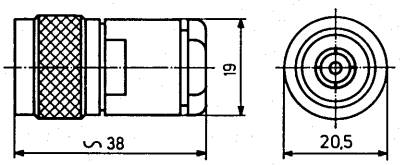
Clamped cable entry
Reduced body diameter

SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
11 N-75-3-1c		2.95	1	G 03233	3017	
11 N-75-3-4c		2.95	2	G 03233-d	3017	
11 N-75-4-3c		3.7	1	RG 59 B/U	3017	
11 N-75-4-6c		3.7	2	G 04233-d	3017	

Cable Plug 50 Ω

Clamped cable entry





SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
11 N-50-5-2	39012/01-0001 replaces UG 18 ./U	4.8	2	RG 222/U	3044	
11 N-50-5-3c		4.8	2	RG 222/U	3045	
11 N-50-7-3	similar to UG 21 D/U	7.25	1	RG 213/U	3007	replaces 11 N-50-7-9 MIL-type with wire locking holes
11 N-50-7-4c		7.25	1	RG 213/U	3008	replaces 11 N-50-7-10c
11 N-50-7-5	39012/01-0002 replaces UG 21 ./U	7.25	2	RG 214/U	3007	replaces 11 N-50-7-11
11 N-50-7-6c	39012/01-0005 replaces UG 1185 ./U	7.25	2	RG 214/U	3008	replaces 11 N N-50-7-12c
11 N-50-7-8c		7.25	1	RG 165/U	3008	with cylindrical gasket
11 N-50-7-21		7.35		SR 7	3057	copper-sheathed cable (semi-rigid)

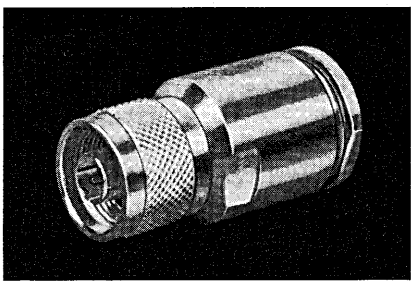
Cable Plug 75 Ω

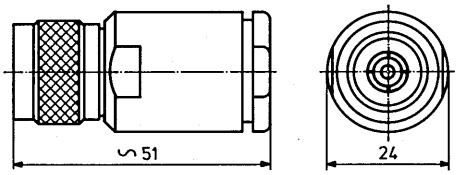
Clamped cable entry

SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
11 N-75-5-1	UG 91 A/U (70 Ω)	4.7	2	RG 6 A/U	3044	
11 N-75-5-2c		4.7	2	RG 6 A/U	3045	
11 N-75-5-8c		4.8	1	G 05233-5	3045	
11 N-75-7-1	UG 94 A/U (70 Ω)	7.25	1	RG 11 A/U	3007	replaces 11 N-75-7-7
11 N-75-7-2c		7.25	1	RG 11 A/U RG 144/U	3008	replaces 11 N-75-7-8c
11 N-75-7-3		7.25	2	RG 216/U	3007	
11 N-75-7-4c		7.25	2	RG 216/U	3008	

Cable Plug 50 Ω

Clamped cable entry





SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
11 N-50-9-2	39012/01-0003 replaces UG 204../U	9.4	1	RG 217/U	3019	
11 N-50-12-1		11.5	1	G 12232	3019	with cylindrical gasket

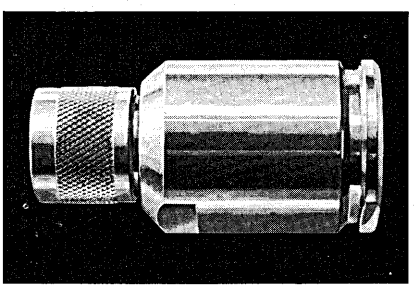
Cable Plug 75 Ω

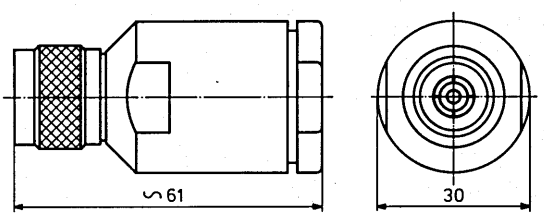
Clamped cable entry

SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
11 N-75-12-1		11.5	1	RG 34 B/U	3019	with cylindrical gasket
11 N-75-12-2c		11.5	1	RG 34 B/U	3020	with cylindrical gasket

Cable Plug 50 Ω

Clamped cable entry





SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
11 N-50-17-1	39012/01-0004 replaces UG 167../U	17.3	1	RG 218/U	3021	with cylindrical gasket
11 N-50-17-2c		17.3	1	RG 218/U	3022	with cylindrical gasket

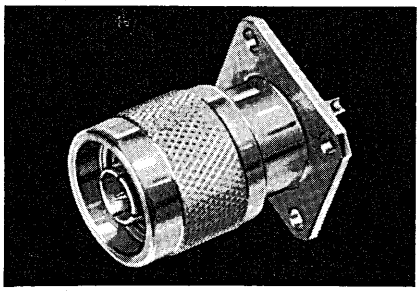
Cable Plug 75 Ω

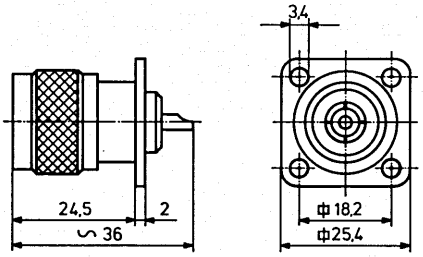
Clamped cable entry

SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
11 N-75-17-1		17.3	1	RG 164/U	3021	with cylindrical gasket
11 N-75-17-2c		17.3	1	RG 164/U	3022	with cylindrical gasket

Male panel receptacle

for «Sucobox» component container



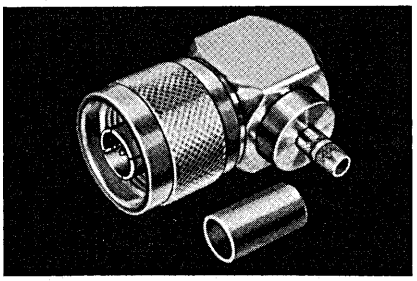


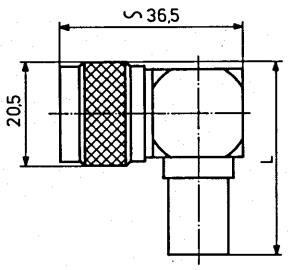
Fixing screws: see accessories 73 Z...

SUHNER type	US-MIL-type	mounting hole	impedance	notes
13 N-50-0-1		ML 16	50 Ω	
13 N-75-0-1		ML 16	75 Ω	

Angle Cable Plug 50 Ω

Outer conductor (braid) crimped
Partly air-insulated



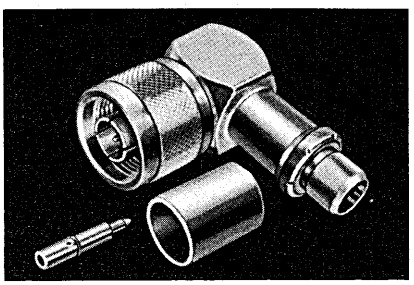


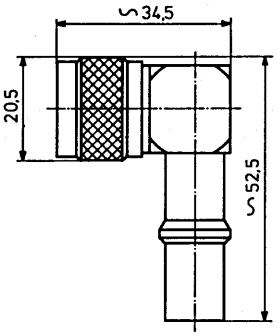
Coloured taper sleeves available for crimp sizes 2B and 2C

SUHNER type	US-MIL-type	suitable cable			assembly instructions	suitable crimping tool see N 8 crimp insert	L mm	
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)				
16 N-50-3-6c		2.95	1	RG 58 C/U	3080	2B	37	
16 N-50-3-7c		2.95	2	RG 223/U	3080	2B	37	
16 N-50-4-2c		3.7	1	RG 59 B/U (75 Ω)	3080	2C	37	Inner contact
16 N-50-4-3c		3.7	2	G 04233-d (75 Ω)	3080	2C	37	soldered
16 N-50-7-10c		7.25	1	RG 213/U	3076	3D	38.5	
16 N-50-7-11c		7.25	2	RG 214/U	3076	3D	38.5	

Angle Cable Plug 50 Ω

Full crimp (inner and outer conductor)
Fully PTFE insulated

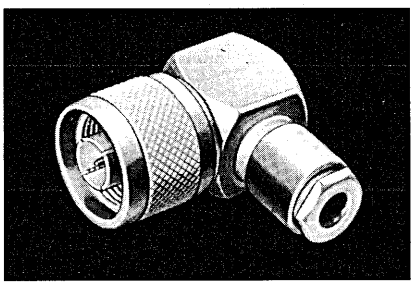


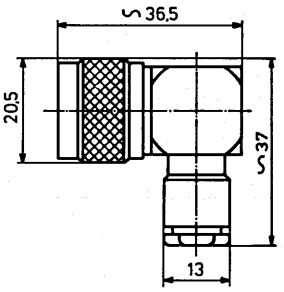


SUHNER type	US-MIL-type	suitable cable			assembly instructions	suitable crimping tool see N 8 crimp insert	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)			
16 N-50-7-12c	39012/05-0002	7.25	1	RG 213/U	3061	3 D	
16 N-50-7-13c	39012/05-0003	7.25	2	RG 214/U	3061	3 D	

Angle Cable Plug 50 Ω

Clamped cable entry
Partly air-insulated
Reduced body diameter





SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
16 N-50-3-1c		2.95	1 2	RG 58 C/U RG 142 B/U	3024	
16 N-50-3-2c		2.95	1	RG 141 A/U	3024	with cylindrical gasket
16 N-50-3-3c		2.95	2	RG 223/U	3024	

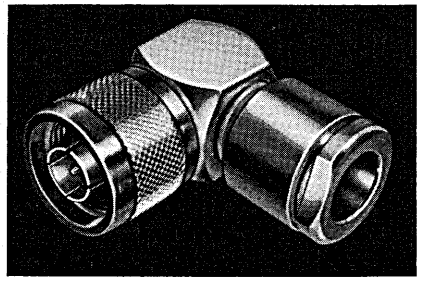
Angle Cable Plug 75 Ω

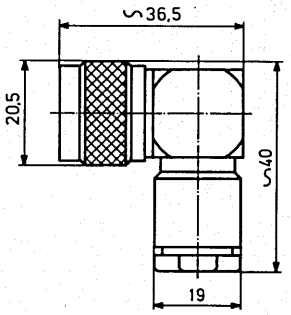
Clamped cable entry
Partly air-insulated
Reduced body diameter

SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
16 N-75-3-1c		2.95	1	G 03233	3024	
16 N-75-4-1c		3.7	1	RG 59 B/U	3024	

Angle Cable Plug 50 Ω

Clamped cable entry
Partly air-insulated





SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
16 N-50-5-2c		4.8	2	RG 222/U	3003	replaces 16 N-50-5-1c
16 N-50-7-7c		7.25	1	RG 165/U	3003	
16 N-50-7-8c		7.25	1	RG 213/U	3003	replaces 16 N-50-7-1
16 N-50-7-9c	39012/05-0001 replaces UG 594../U	7.25	2	RG 214/U	3003	replaces 16 N-50-7-2c

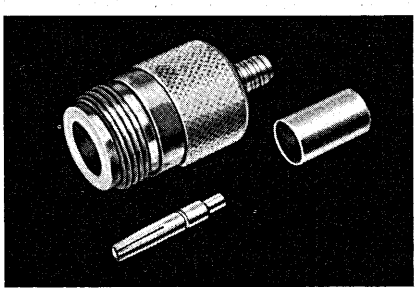
Angle Cable Plug 75 Ω

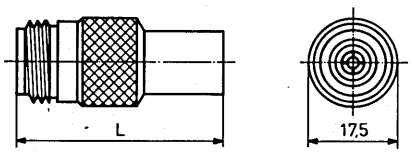
Clamped cable entry
Partly air-insulated

SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
16 N-75-5-1c		4.7	2	RG 6 A/U	3003	
16 N-75-7-1c		7.25	1	RG 11 A/U RG 144/U	3003	
16 N-75-7-2c		7.25	2	RG 216/U	3003	

Cable Jack 50 Ω

Full crimp



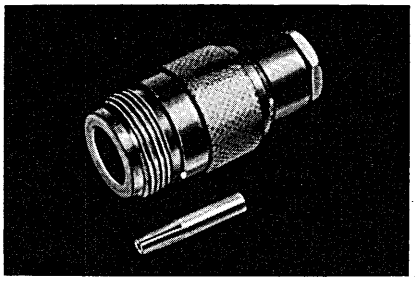


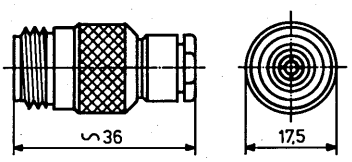
Coloured taper sleeves available for crimp sizes 2B and 2C

SUHNER type	US-MIL-type	suitable cable			assembly instructions	suitable crimping tool see N 8	L mm	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)				
21 N-50-3-7c		2.95	1	RG 58 C/U	3063	2 B	39	
21 N-50-3-8c		2.95	2	RG 223/U	3063	2 B	39	
21 N-50-4-3c		3.7	1	RG 59 B/U (75 Ω)	3063	2 C	39	
21 N-50-4-4c		3.7	2	G 04233-d (75 Ω)	3063	2 C	39	
21 N-50-7-13c	39012/02-0008	7.25	1	RG 213/U	3061	3 D	41	MIL-type has not captivated inner contact
21 N-50-7-14c	39012/02-0009	7.25	2	RG 214/U	3061	3 D	41	MIL-type has not captivated inner contact

Cable Jack 50 Ω

Clamped cable entry
Reduced body diameter





SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no of screens	examples (dimensions see N 6)		
21 N-50-3-1		2.95	1	RG 58 C/U	3016	
21 N-50-3-2c		2.95	1	RG 58 C/U	3017	
21 N-50-3-3c		2.95	1	RG 141 A/U	3017	
21 N-50-3-4		2.95	2	RG 223/U	3016	
21 N-50-3-5c		2.95	2	RG 223/U	3017	
21 N-50-3-9		3.0	1	SR 3	3056	copper sheathed cable (semi-rigid)
21 N-50-4-1	UG 602 A/U	3.7	1	RG 59 B/U (75 Ω)	3016	
21 N-50-4-2c		3.7	1	RG 59 B/U (75 Ω)	3017	

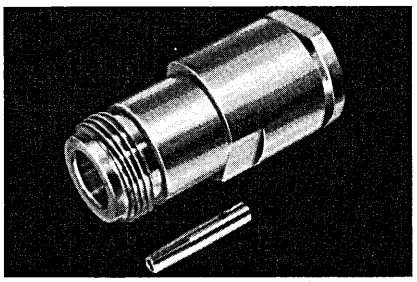
Cable Jack 75 Ω

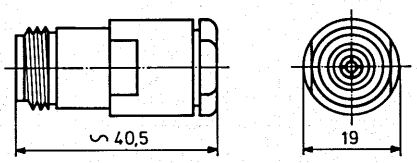
Clamped cable entry

SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
21 N-75-3-1c		2.95	1	G 03233	3017	
21 N-75-3-3c		2.95	2	G 03233-d	3017	
21 N-75-4-3c		3.7	1	RG 59 B/U	3017	
21 N-75-4-6c		3.7	2	G 04233-d	3017	

Cable Jack 50 Ω

Clamped cable entry





SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
21 N-50-5-1	UG 20 E/U	4.8	2	RG 222/U	3044	
21 N-50-5-2c		4.8	2	RG 222/U	3045	
21 N-50-7-5		7.25	1	RG 213/U	3007	replaces 21 N-50-7-1
21 N-50-7-6c		7.25	1	RG 213/U	3008	
21 N-50-7-7	39012/02-0002 replaces UG 23../U	7.25	2	RG 214/U	3007	
21 N-50-7-8c	39012/02-0003 replaces UG 1186../U	7.25	2	RG 214/U	3008	
21 N-50-7-10c		7.25	1	RG 165/U	3045	with cylindrical gasket
21 N-50-7-15		7.35	1	SR 7	3057	copper-sheated cable (semi-rigid)

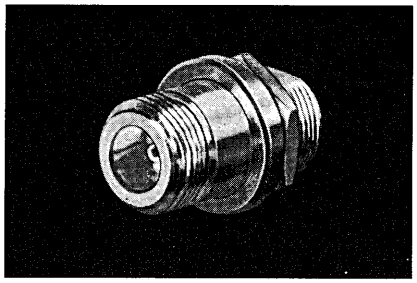
Cable Jack 75 Ω

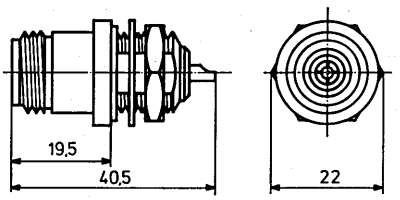
Clamped cable entry

SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
21 N-75-5-1	UG 92 A/U (70 Ω)	4.7	2	RG 6 A/U	3044	
21 N-75-5-2c		4.7	2	RG 6 A/U	3045	
21 N-75-5-5c		4.8	1	G 05233-5	3045	
21 N-75-7-5	UG 95 A/U (70 Ω)	7.25	1	RG 11 A/U	3007	
21 N-75-7-6c		7.25	1 1	RG 11 A/U RG 144/U	3008	
21 N-75-7-7		7.25	2	RG 216/U	3007	
21 N-75-7-8c		7.25	2	RG 216/U	3008	

Bulkhead Receptacle 50 and 75 Ω

single-hole mounting

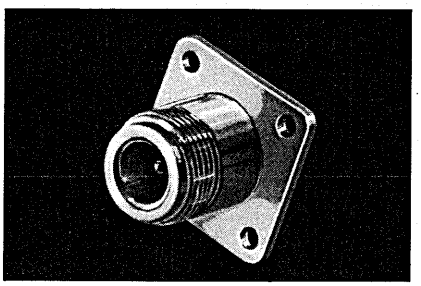


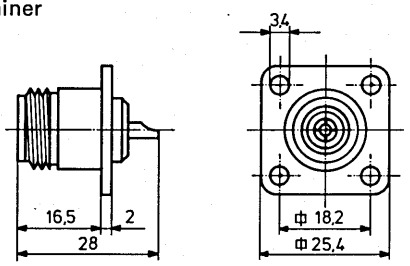


SUHNER type	US-MIL-type	mounting hole	panel thickness max. mm	impedance	notes
22 N-50-0-2	39012/04-0001 replaces UG 680 B/U	ML 12	8.0	50 Ω	MIL-type = hermetically sealed
22 N-75-0-1		ML 12	8.0	75 Ω	

Panel Receptacle 50 and 75 Ω

with square flange
also suitable for «Sucobox» component container



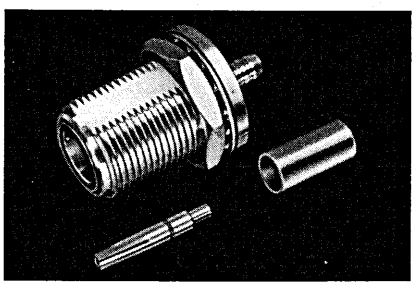


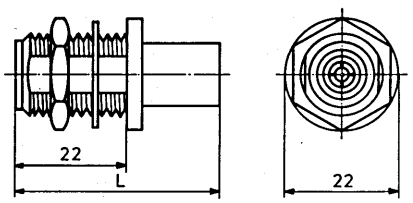
Fixing screws: see accessories 73 Z . . .

SUHNER type	US-MIL-type	mounting hole	impedance	notes
23 N-50-0-1	39012/04-0002 replaces UG 58../U	ML 17	50 Ω	
23 N-75-0-1		ML 17	75 Ω	

Bulkhead Jack 50 Ω

for single-hole mounting
Full crimp



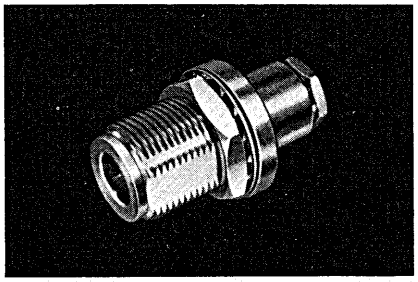


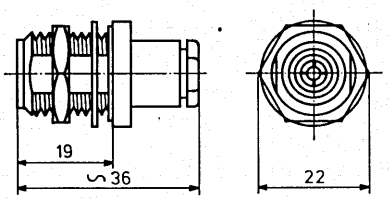
Coloured taper sleeves available for crimp sizes 2B and 2C

SUHNER type	US-MIL-type	suitable cable			assembly instructions	mounting hole	panel thickness max. mm	suitable crimping tool see N 8 crimp insert	L mm	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)						
24 N-50-3-11c		2.95	1	RG 58 C/U	3063	ML 12	6.5	2 B	39	
24 N-50-3-12c		2.95	2	RG 223/U	3063	ML 12	6.5	2 B	39	
24 N-50-4-5c		3.7	1	RG 59 B/U (75 Ω)	3063	ML 12	6.5	2 C	39	
24 N-50-4-6c		3.7	2	G 04233-d (75 Ω)	3063	ML 12	6.5	2 C	39	
24 N-50-7-14c	39012/03-0004	7.25	1	RG 213/U	3061	ML 12	6.5	3 D	41	
24 N-50-7-15c	39012/03-0005	7.25	2	RG 214/U	3061	ML 12	6.5	3 D	41	

Bulkhead Jack 50 Ω

Single-hole mounting, Clamped cable entry, Reduced body diameter





SUHNER type	US-MIL-type	suitable cable: dielectric dia. nom. mm	suitable cable: no. of screens	suitable cable: examples (dimensions see N 6)	assembly instructions	mounting hole	panel thickness max. mm	notes
24 N-50-3-1		2.95	1	RG 58 C/U	3016	ML 12	4.5	
24 N-50-3-3		2.95	2	RG 223/U	3016	ML 12	4.5	
24 N-50-3-9c		2.95	1 2	RG 58 C/U RG 142 B/U	3017	ML 12	4.5	replaces 24 N-50-3-2c
24 N-50-3-10c	UG 556 B/U	2.95	2	RG 223/U	3017	ML 12	4.5	replaces 24 N-50-3-4c
24 N-50-3-7c		3.0		SR 3	3056	ML 12	4.5	
24 N-50-4-3c		3.7	1	RG 59 B/U (75 Ω)	3017	ML 12	4.5	replaces 24 N-50-4-2c

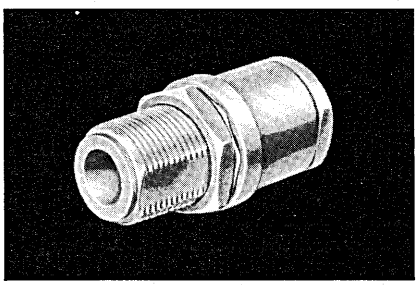
Bulkhead Jack 75 Ω

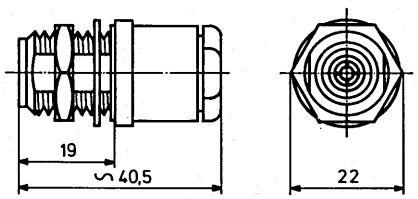
Single-hole mounting, Clamped cable entry, Reduced body diameter

SUHNER type	US-MIL-type	suitable cable: dielectric dia. nom. mm	suitable cable: no. of screens	suitable cable: examples (dimensions see N 6)	assembly instructions	mounting hole	panel thickness max. mm	notes
24 N-75-3-1c		2.95	1	G 03233	3017	ML 12	4.5	
24 N-75-4-2c		3.7	1	RG 59 B/U	3017	ML 12	4.5	

Bulkhead Jack 50 Ω

Single-hole mounting, Clamped cable entry





SUHNER type	US-MIL-type	suitable cable: dielectric dia. nom. mm	suitable cable: no. of screens	suitable cable: examples (dimensions see N 6)	assembly instructions	mounting hole	panel thickness max. mm	notes
24 N-50-5-2	39012/03-0001 replaces UG 159./U	4.7	2	RG 222/U	3044	ML 12	4.5	
24 N-50-5-3c		4.7	2	RG 222/U	3045	ML 12	4.5	
24 N-50-7-5		7.25	1	RG 213/U	3007	ML 12	4.5	
24 N-50-7-6c		7.25	1	RG 213/U	3008	ML 12	4.5	
24 N-50-7-7		7.25	2	RG 214/U	3007	ML 12	4.5	
24 N-50-7-8c	39012/03-0012 replaces UG 160./U	7.25	2	RG 214/U	3008	ML 12	4.5	
24 N-50-7-10c		7.25	1	RG 165/U	3045	ML 12	4.5	with cylind. gasket
24 N-50-7-13		7.35		SR 7	3057	ML 12	4.5	copper-sheathed cable (semi-rigid)

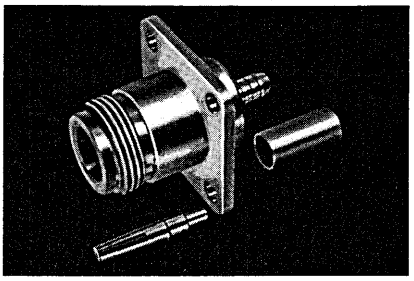
Bulkhead Jack 75 Ω

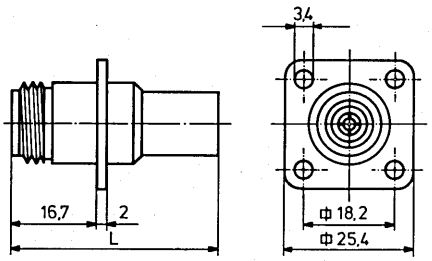
Single-hole mounting
Clamped cable entry

SUHNER type	US-MIL-type	suitable cable			assembly instructions	mounting hole	panel thickness max. mm	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)				
24 N-75-5-2c		4.7	2	RG 6 A/U	3045	ML 12	4.5	
24 N-75-5-4c		4.8	1	G 05233-5	3045	ML 12	4.5	
24 N-75-7-6c		7.25	1	RG 11 A/U RG 144/U	3008	ML 12	4.5	
24 N-75-7-8c		7.25	2	RG 216/U	3008	ML 12	4.5	

Panel Jack 50 Ω

Square flange
Full crimp



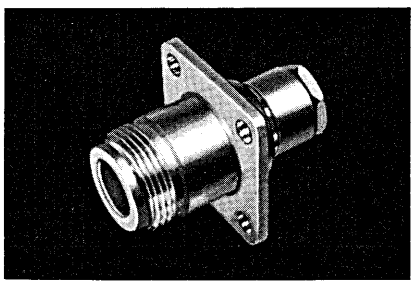


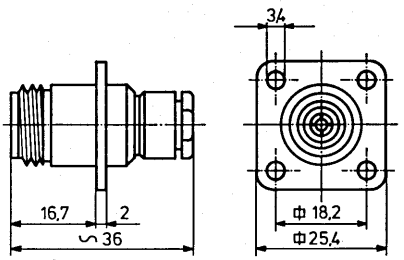
Coloured taper sleeves available for crimp sizes 2B and 2C
Fixing screws: see accessories 73 Z . . .

SUHNER type	US-MIL-type	suitable cable			assembly instructions	mounting hole	suitable crimping tool see N 8 crimp insert	L mm	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)					
25 N-50-3-6c		2.95	1	RG 58 C/U	3063	ML 14	2 B	39	
25 N-50-3-7c		2.95	2	RG 223/U	3063	ML 14	2 B	39	
25 N-50-4-3c		3.7	1	RG 59 B/U (75 Ω)	3063	ML 14	2 C	39	
25 N-50-4-4c		3.7	2	G 04233-d (75 Ω)	3063	ML 14	2 C	39	
25 N-50-7-13c	39012/02-0016	7.25	1	RG 213/U	3061	ML 14	3 D	41	
25 N-50-7-14c	39012/02-0017	7.25	2	RG 214/U	3061	ML 14	3 D	41	

Panel Jack 50 Ω

Square flange
Clamped cable entry
Reduced body diameter





Fixing screws: see accessories 73 Z . . .

SUHNER type	US-MIL-type	suitable cable			assembly instructions	mounting hole	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)			
25 N-50-3-1		2.95	1	RG 58 C/U	3016	ML 14	
25 N-50-3-2c		2.95	1 2	RG 58 C/U RG 142 B/U	3017	ML 14	
25 N-50-3-3	UG 1095 B/U	2.95	2	RG 223/U	3016	ML 14	replaces UG 1052 . ./U
25 N-50-3-4c		2.95	2	RG 223/U	3017	ML 14	
25 N-50-3-5		3.0		SR 3	3056	ML 14	copper-sheathed cable (semi-rigid)
25 N-50-4-2c	UG 593 A/U	3.7	1	RG 59 B/U (75 Ω)	3017	ML 14	

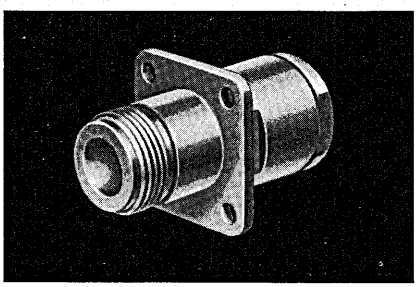
Panel Jack 75 Ω

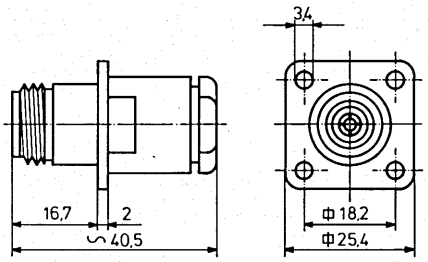
Square flange
Clamped cable entry
Reduced body diameter

SUHNER type	US-MIL-type	suitable cable			assembly instructions	mounting hole	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)			
25 N-75-3-1c		2.95	1	G 03233	3017	ML 14	with cylindrical gasket
25 N-75-4-2c		3.7	1	RG 59 B/U	3017	ML 14	

Panel Jack 50 Ω

Square flange
Clamped cable entry





Fixing screws: see accessories 73 Z . . .

SUHNER type	US-MIL-type	suitable cable			assembly instructions	mounting hole	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)			
25 N-50-5-2c		4.7	2	RG 222/U	3045	ML 18	similar to UG 19 E/U
25 N-50-7-6c		7.25	1	RG 213/U	3008	ML 18	
25 N-50-7-7	39012/02-0005 replaces UG 22../U	7.25	2	RG 214/U	3007	ML 18	
25 N-50-7-8c	39012/02-0006 replac. UG 1187./U	7.25	2	RG 214/U	3008	ML 18	
25 N-50-7-10c		7.25	1	RG 165/U	3045	ML 18	with cylindrical gasket
25 N-50-7-12		7.35	1	SR 7	3057	ML 18	copper-sheathed cable (semi-rigid)

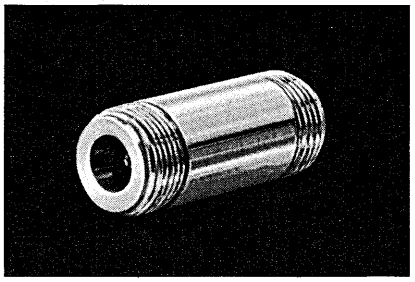
Panel Jack 75 Ω

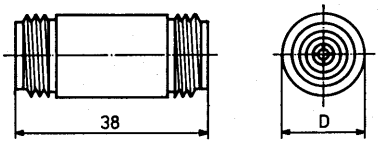
Square flange
Clamped cable entry

SUHNER type	US-MIL-type	suitable cable			assembly instructions	mounting hole	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)			
25 N-75-5-1	UG 93 A/U (70 Ω)	4.7	2	RG 6 A/U	3044	ML 18	
25 N-75-5-2c		4.7	2	RG 6 A/U	3045	ML 18	
25 N-75-5-4c		4.8	1	G 05233-5	3045	ML 18	
25 N-75-7-5	UG 96 A/U (70 Ω)	7.25	1	RG 11 A/U	3007	ML 18	
25 N-75-7-6c		7.25	1	RG 11 A/U RG 144/U	3008	ML 18	
25 N-75-7-8c		7.25	2	RG 216/U	3008	ML 18	

Straight Adaptor

female/female

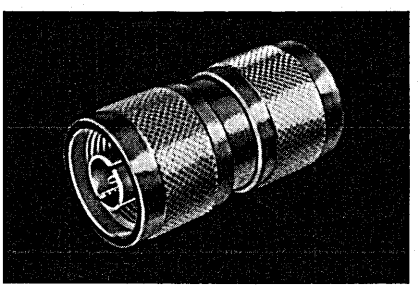


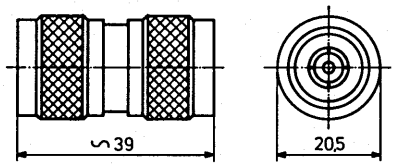


SUHNER type	US-MIL-type	impedance	diameter	notes
31 N-50-0-1	UG 29 A/U	50 Ω	15.9	plain grip
31 N-50-0-2	UG 29 B/U	50 Ω	19.5	knurled grip
31 N-75-0-1		75 Ω	15.9	plain grip
31 N-75-0-2		75 Ω	19.5	knurled grip

Straight Adaptor

male/male

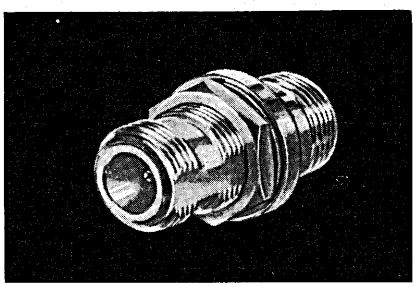


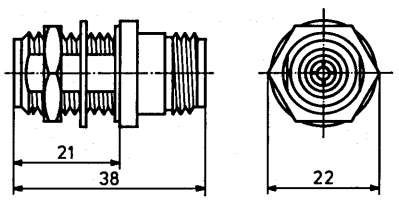


SUHNER type	US-MIL-type	impedance	notes
32 N-50-0-1	UG 57 B/U	50 Ω	
32 N-75-0-1		75 Ω	

Bulkhead Adaptor

Single-hole mounting, female/female

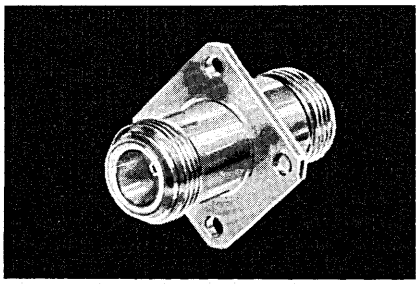


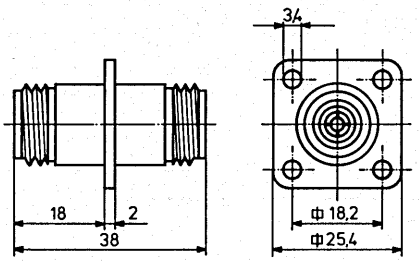


SUHNER type	US-MIL-type	mounting hole	panel thickness max. mm	impedance	notes
34 N-50-0-1	similar to UG 30 E/U	ML 12	6.5	50 Ω	MIL-type = hermetically sealed
34 N-75-0-1		ML 12	6.5	75 Ω	

Panel Adaptor

square flange, female/female



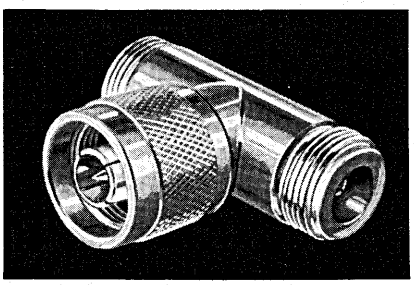


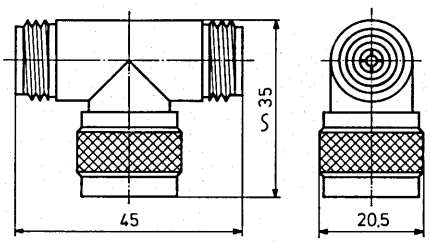
Fixing screws: see accessories 73 Z . . .

SUHNER type	US-MIL-type	mounting hole	impedance	notes
37 N-50-0-1		ML 14	50 Ω	
37 N-75-0-1		ML 14	75 Ω	

T-Adaptor

2 × female, 1 × male

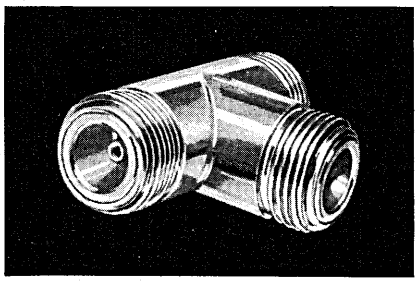


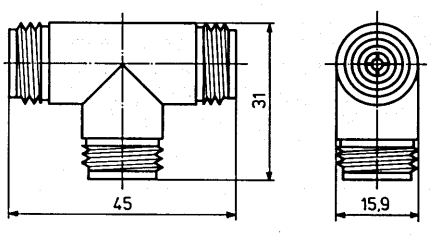


SUHNER type	US-MIL-type	impedance	notes
43 N-50-0-1	UG 107 B/U	50 Ω	
43 N-75-0-1		75 Ω	

T-Adaptor

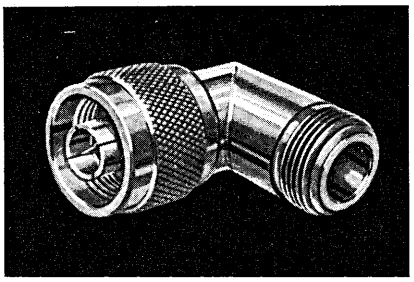
3 × female

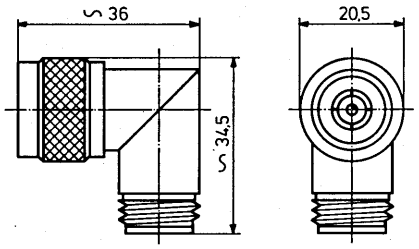




SUHNER type	US-MIL-type	impedance	notes
46 N-50-0-1	UG 28 A/U	50 Ω	
46 N-75-0-1		75 Ω	

Angle Adaptor

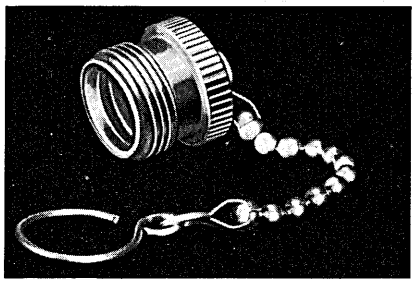


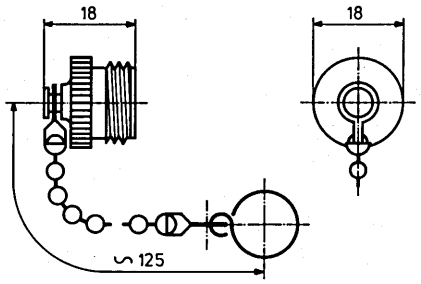


SUHNER type	US-MIL-type	impedance	notes
53 N-50-0-1	UG 27 B/U	50 Ω	
53 N-75-0-1		75 Ω	

Protective Cap

for plug

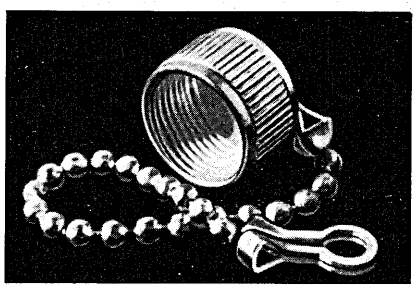


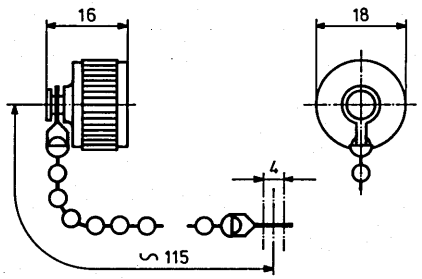


SUHNER type	US-MIL-type	notes
61 N-0-0-1		with chain and ring

Protective Cap

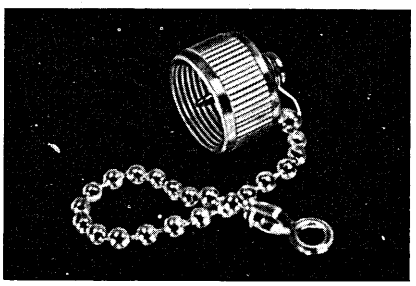
for socket

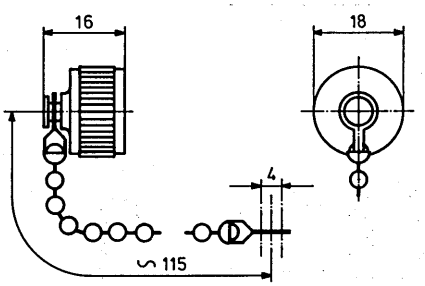




SUHNER type	US-MIL-type	notes
62 N-0-0-1		with chain and eyelet

Shorting plug



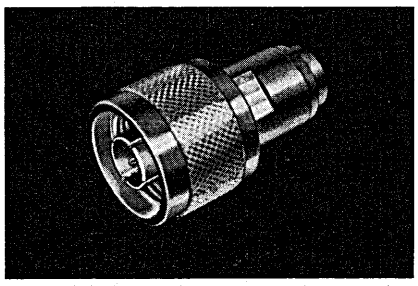


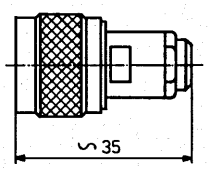
SUHNER type	US-MIL-type	impedance	notes
64 N-50-0-1		50 Ω	
64 N-50-0-2		50 Ω	precision design for measuring applications without chain
64 N-75-0-2		75 Ω	

Coaxial Termination 50 Ω/75 Ω

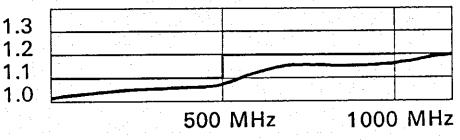
Permissible continuous load: 1 W (25° C)
Permissible impulse load: 12.5 Ws (350 V max.)

500 MHz



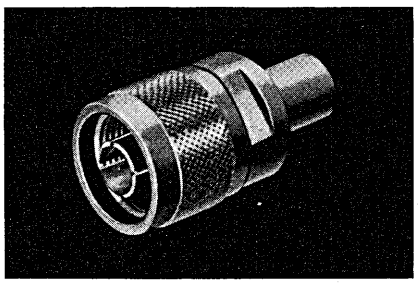


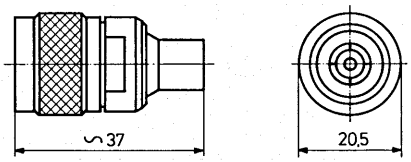
VSWR 500 MHz series



coupling	50 Ω 2%	50 Ω 1%	75 Ω 2%	75 Ω 1%	
male	**65 N-50-0-1**	**65 N-50-0-3**	**65 N-75-0-1**	**65 N-75-0-3**	

1000 MHz

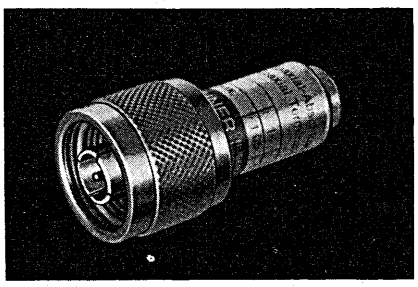


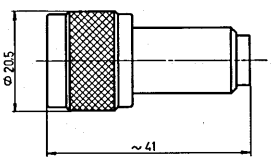


VSWR 1.05 max
DC - 1000 MHz

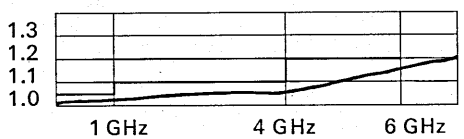
coupling				75 Ω 1%	
male				**65 N-75-0-11**	

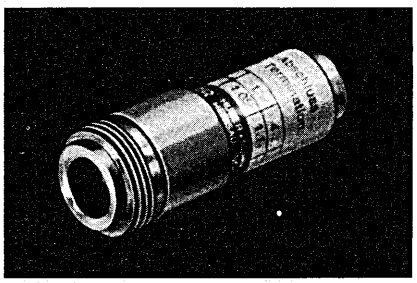
4000 MHz

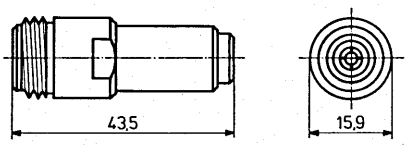




VSWR 4000 MHz series



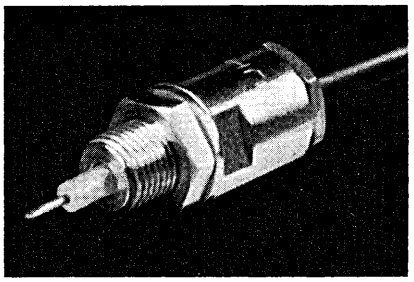


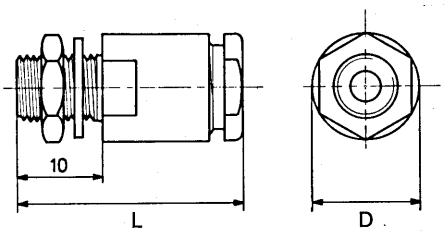


coupling	50 Ω 2%				
male	**65 N-50-0-11**				
female	**65 N-50-0-31**				

Cable Feed-Through

Clamped cable entry

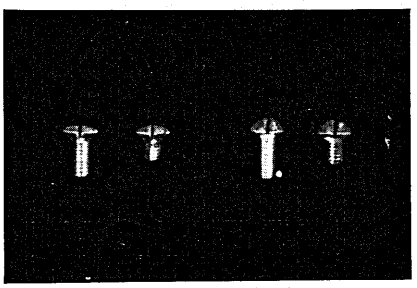




SUHNER type	US-MIL-type	suitable cable			assembly instructions	notes
		dielectric dia. nom. mm	no. of screens	examples (dimensions see N 6)		
71 Z-0-3-3	MX 1684/U	2.95	1	RG 58 C/U G 03233	3004*	10 mm threaded portion mounting hole dia. 8.0 mm L = 25.0 mm D = 12.5 mm
71 Z-0-3-4		2.95	2	RG 223/U G 03233-d	3004*	
71 Z-0-3-5		2.95	1	RG 141 A/U	3004*	
71 Z-0-4-3		3.7	1	RG 59 B/U	3004*	
71 Z-0-4-7		3.7	2	G 04233-d	3004*	
71 Z-0-5-1		4.7	2	RG 6 A/U RG 222/U	3007*	9.5 mm threaded portion mounting hole dia. 13.0 mm L = 28.5 mm D = 19.0 mm
71 Z-0-7-2		7.25	1	RG 11 A/U RG 213/U	3007*	
71 Z-0-7-3		7.25	2	RG 214/U RG 216/U	3007*	
						* These dimensions apply only to sheath and screening

Screws, silver-plated

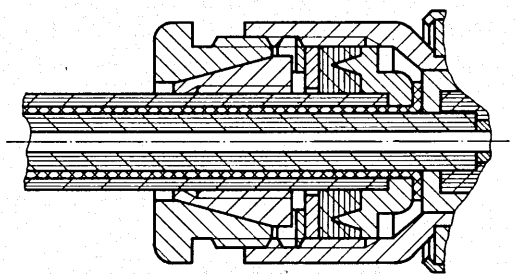
thread UNF 3–56 ≙ M 2.5



	notes
73 Z-0-0-1	round head, thread length 4 mm
73 Z-0-0-2	round head, thread length 6 mm
73 Z-0-0-8	round head, thread length 7 mm
73 Z-0-0-3	counter-sunk, thread length 4 mm
73 Z-0-0-4	counter-sunk, thread length 6 mm

FUK/GUK Cable-Entry

These cable entries are of specially robust construction and provide a high degree of security against pull out and torsional stresses.
FUK for cables with 2.95 and 3.7 mm dielectric diameter
GUK for cables with 7.25 mm dielectric diameter

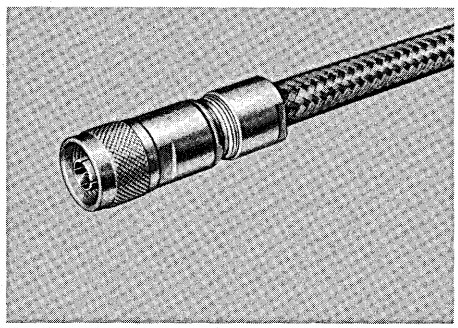


type*	for cables with sheath dia. max. ... mm	dielectric dia. mm	no. of screens	example
FUK 0350	5.0	2.95	1	RG 58 C/U
FUK 0358	5.8	2.95	2	RG 223/U
FUK 0461	6.1	3.7	1	RG 59 B/U
FUK 0467	6.7	3.7	2	G 04233-d
GUK 07103	10.3	7.25	1	RG 213/U
GUK 07108	10.8	7.25	2	RG 214/U

* Ordering code for an additional set of cable entry parts which fit all connectors with 19 mm dia. body (11/16" thread).

FK/GK Cable-Entry

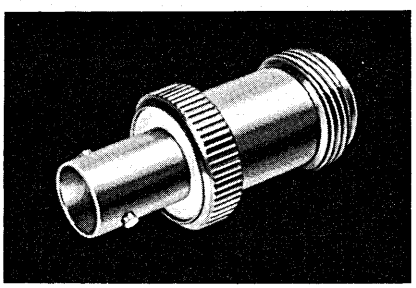
Suitable for functional and neat terminating of armoured cables



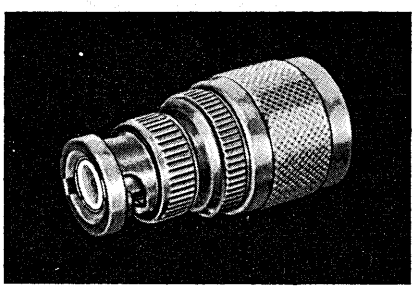
type*	for cables with dia. over PVC sheath max. ... mm	cable example
FK 50	5.0	G 03243
FK 61	6.1	G 04243
FK 67	6.7	G 04243-d
GK 103	10.3	RG 215/U
GK 220	22.0	RG 219/U

* Ordering code for an additional set of cable entry parts which fit all connectors with 19 mm dia. body (11/16" thread).

Between-Series Adaptors (from N to other series)



31 BNC-N-50-1



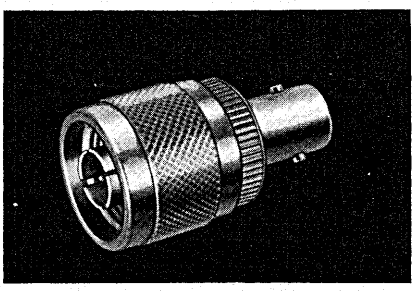
32 BNC-N-50-1

50 Ω from to	**31 N - . . .** female-female	US-MIL-type	dia. mm max.	L mm max.	**32 N - . . .** male-male	US-MIL-type	dia. mm max.	L mm max.
N - BNC	**31 BNC - N-50-1**	UG 606/U	18.0	38.5	**32 BNC - N-50-1**	UG 1034/U	20.5	38.0
N - TNC	**31 N - TNC-50-1**		18.0	38.5	**32 N - TNC-50-1**		20.5	38.0
N - C	**31 C - N-50-1**		18.0	40.5	**32 C - N-50-1**		20.5	39.5
N - SMB	**31 N - SMB-50-1**		16.0	30.5	**32 N - SMB-50-1**		20.5	30.5
N - SMC	**31 N - SMC-50-1**		16.0	30.5	**32 N - SMC-50-1**		20.5	31.0
N - SMS	**31 N - SMS-50-1**		16.0	30.5	**32 N - SMS-50-1**		20.5	30.5
N - UHF*	**31 N - UHF-0-1**		18.0	38.5	**32 N - UHF-0-1**	UG 318/U	20.5	41.0
75 Ω								
N - BNC	**31 BNC - N-75-1**		18.0	38.5	**32 BNC - N-75-1**		20.5	38.0
N - TNC	**31 N - TNC-75-1**		18.0	38.5	**32 N - TNC-75-1**		20.5	38.0
N - C	**31 C - N-75-1**		18.0	40.5	**32 C - N-75-1**		20.5	39.5
N - J	**31 J - N-75-1**		18.0	40.5	**32 J - N-75-1**		20.5	39.5
N - UHF*	**31 N - UHF-0-2**		18.0	38.5	**32 N - UHF-0-2**		20.5	41.0

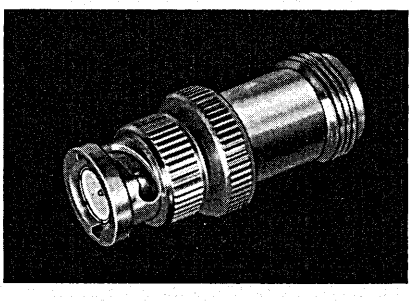
* UHF-side: no definite impedance

The type description of the 31 . . . and 32 . . . adaptors is alphabetically arranged. The sequence of the coding has no effect on the function or appearance of the adaptor.

Between-Series Adaptors (from N to other series)



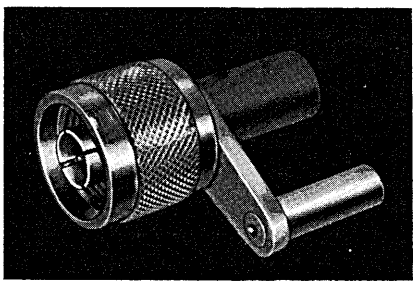
33 N-BNC-50-1



33 BNC-N-50-1

50 Ω from to	**33 N - . . .** male-female	US-MIL-type	dia. mm max.	L mm max.	**33 . . . -N . . .** male-female	US-MIL-type	dia. mm max.	L mm max.
N - BNC	**33 N - BNC-50-1**	UG 201 A/U	20.5	35.5	**33 BNC - N-50-1**	UG 349 B/U	18.0	41.0
N - TNC	**33 N - TNC-50-1**		20.5	35.5	**33 TNC - N-50-1**		18.0	41.0
N - C	**33 N - C-50-1**	UG 564/U	20.5	37.5	**33 C - N-50-1**	UG 565 A/U	19.5	41.5
N - SMB	**33 N - SMB-50-1**		20.5	30.5	**33 SMB - N-50-1**		16.0	30.5
N - SMC	**33 N - SMC-50-1**		20.5	30.5	**33 SMC - N-50-1**		16.0	31.0
N - SMS	**33 N - SMS-50-1**		20.5	30.5	**33 SMS - N-50-1**		16.0	30.5
N - UHF*	**33 N - UHF-0-1**	UG 146 A/U	20.5	30.5	**33 UHF - N-0-1**		19.5	38.5
75 Ω								
N - BNC	**33 N - BNC-75-1**		20.5	35.5	**33 BNC - N-75-1**		18.0	41.0
N - TNC	**33 N - TNC-75-1**		20.5	35.5	**33 TNC - N-75-1**		18.0	41.0
N - C	**33 N - C-75-1**		20.5	37.5	**33 C - N-75-1**		19.5	41.5
N - J	**33 N - J-75-1**		20.5	37.5	**33 J - N-75-1**		19.5	41.5
N - UHF*	**33 N - UHF-0-2**		20.5	35.5	**33 UHF - N-0-2**		19.5	38.5
N-banana (2-pole)	**33 N - A-0-1**		19.0	39.0				

* not impedance matched



33 N-A-0-1

For type 33 . . . between-series adaptors the two series involved must be indicated in the right order. The connector side shown first is positive (male), the connector side shown in second place is negative (female).

Important:
The so called positive (male) SMB/C/S connectors (11, 16 SMB/C/S etc.) are designed with socket inner contacts and surrounding outer contacts.