



SERIES UHF

COAXIAL AND TWIN CONNECTORS

Description

SUHNER UHF connectors are intended for applications up to 200 MHz where mechanically robust low cost connectors are required. UHF connectors provide excellent shock and vibration resistance. They are mateable with standard 4 mm banana plugs. The impedance is not defined.

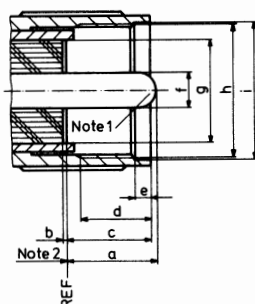
UHF Twin Connectors

SUHNER UHF Twin connectors are available in polarized version.

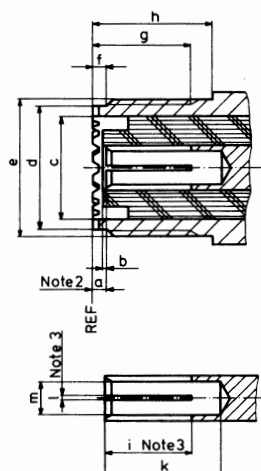
Apart from the contact arrangement as shown below, UHF Twin connectors have the same interface dimensions as UHF coaxial connectors.

Interface Dimensions, UHF Coax

Plug



Jack



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Standards

SUHNER UHF coaxial connectors conform to IEC 169-12.

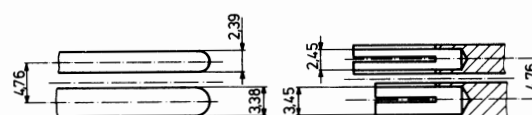
Interface Dimensions in mm

	Plug		Jack	
	min.	max.	min.	max.
A	11.1	—	—	1.02
B	—	0.00	—	0.03
C	9.91	—	12.22	11.56
D	—	8.76	14.25	14.0
E	4.27	1.19	—	5/8-24 UNEF-2A
F	4.01	3.91	1.96	1.19
G	12.22	11.56	—	7.87
H	—	5/8-24 UNEF-2B	—	11.1
I	—	—	—	Note 3
K	—	—	—	11.76
L	—	—	—	Note 3
M	—	—	—	4.03

Note 1: shape of inner conductor optional
Note 2: mechanical and electrical reference plane
Note 3: depth and width of slots optional

Interface Dimensions, UHF Twin

Twin polarised



Technical Data

Electrical Data	Requirements
Impedance	not defined
Frequency range	DC ... 200 MHz
Dielectric withstanding voltage (at sea level)	2.0 kV rms, 50 Hz
Working voltage (at sea level)	≤ 750 V rms, 50 Hz
Insulation resistance	≥ 5 · 10 ³ MΩ
Contact resistance – inner conductor – outer conductor	≤ 5 mΩ ≤ 5 mΩ
Contact current	≤ 10 A

Environmental Data

	Requirements/tests	
	PTFE	PP (Polypropylene)
Dielectric type		
Temperature range	– 55° C ... + 165° C	– 25° C ... + 100° C
Corrosion	Saltspray test acc. to MIL-STD-202, Method 101, Condition B	

Materials

Connector part	Standards	Material	Surface/plating
Bodies, Contact pins, Contact sockets	QQ-B-626, ISO CuZn 38 Pb2	brass	nickel plated silver passivated silver passivated
Crimp ferrules	SUHNER specification	copper	nickel plated
Insulators	ASTM-D-1457	PTFE PP polypropylene	
Gaskets	ASTM-E-1418 PS 1	silicone rubber 70 shore	

Some connectors may have a specification that differs from above mentioned data.

Cable Connectors

straight plugs

cable entry MIL-type

reducing adaptors see below

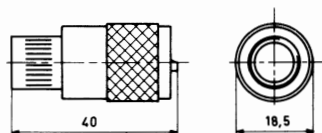


Fig. 1

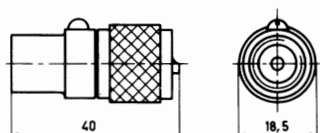
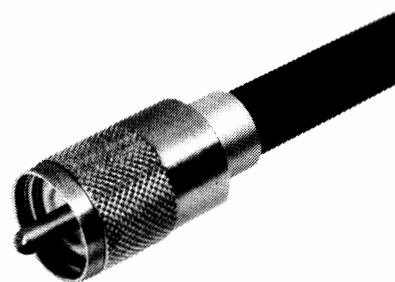


Fig. 2



SUHNER TYPE coaxial	SUHNER TYPE Twin polarized	Ident. no.	MIL-type	Cable group (example)	Insula- tion	Fig.	Weight	AI
	GDa 052 pol ¹⁾	541546		V2 (G 05730)	PP	1	30.0 g	3036
11 UHF-0-7-4c		542728	PL-259	U28 (RG 213/U)	PP	1	24.0 g	3034
11 UHF-0-7-5c		542733		U28 (RG 213/U)	PTFE	1	24.0 g	3034
11 UHF-0-7-6c		542737	PL-259 A	U28 (RG 213/U)	PP	2	31.0 g	3034

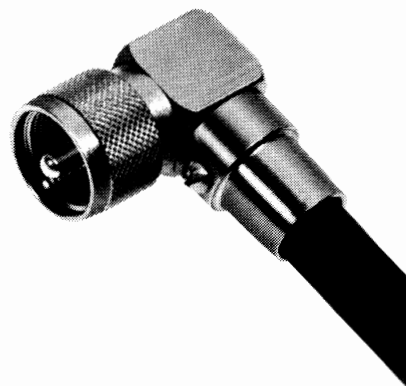
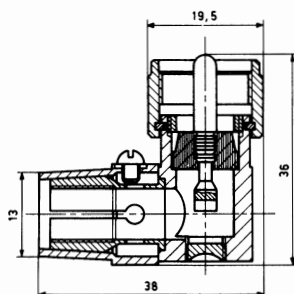
1) includes reducing adaptor

right angle plug

cable entry

MIL-type, resilient

reducing adaptors see below



SUHNER TYPE coaxial	Ident. no.	MIL-type	Cable group (example)	Insulation	Weight	AI
16 UHF-0-7-1c	542765		U28 (RG 213/U)	PTFE	59.0 g	3034

reducing adaptors

to use with all connectors
included on this page

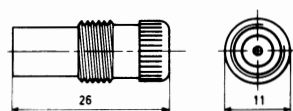


Fig. 1

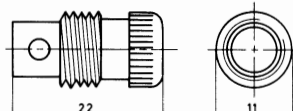


Fig. 2



SUHNER TYPE	Ident. no.	MIL-type	Cable group (example)	Fig.	Weight	AI
RD 07/03	542938	UG-175/U	U7 (RG 58 C/U)	1	10.0 g	3042
RD 07/04	542944	UG-176/U	U15 (RG 59 B/U)	1	8.0 g	3042
RDα 07/05	542950		V2 (G 05730)	2	6.0 g	3042

AI = assembly instruction
cable groups see page 17

mounting holes see page 269
assembly tools see page 251

straight plugs

SUHNER full crimp

taper sleeves
see page 262

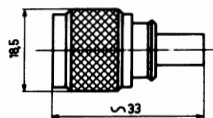


Fig. 1

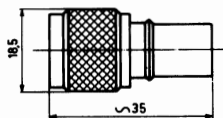
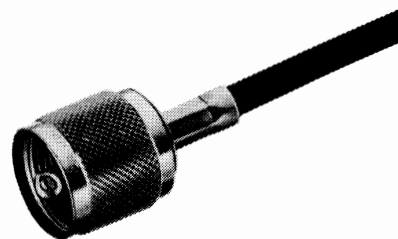


Fig. 2

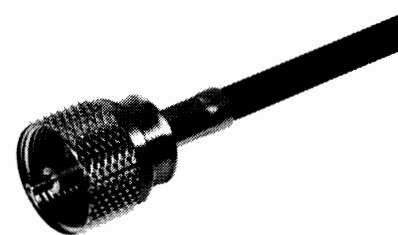
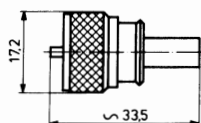


SUHNER TYPE	Ident. no.	Cable group (example)	Insulation	Crimp insert	Fig.	Weight	AI
11 UHF-0-3-17c	542678	U7 (RG 58 C/U)	PP	2B	1	21.0 g	3075
11 UHF-0-3-18c	542679	U9 (RG 223/U)	PP	2B	1	21.0 g	3075
11 UHF-0-3-19c	542680	U7 (RG 58 C/U)	PTFE	2B	1	22.0 g	3075
11 UHF-0-3-20c	542681	U9 (RG 223/U)	PTFE	2B	1	22.0 g	3075
11 UHF-0-4-14c	542701	U16 (RG 59 B/U)	PP	2C	1	21.0 g	3075
11 UHF-0-4-16c	542703	U16 (RG 59 B/U)	PTFE	2C	1	23.0 g	3075
11 UHF-0-7-17c	542744	U29 (RG 213/U)	PP	3D	2	25.0 g	3075
11 UHF-0-7-18c	542745	U32 (RG 214/U)	PP	3D	2	23.0 g	3075
11 UHF-0-7-19c	542747	U29 (RG 213/U)	PTFE	3D	2	24.0 g	3075
11 UHF-0-7-20c	542749	U32 (RG 214/U)	PTFE	3D	2	25.0 g	3075

straight plug

SUHNER full crimp

inner and outer conductor
crimping with one single operation



SUHNER TYPE	Ident. no.	Cable group (example)	Crimp insert	Weight	AI
11 UHF-0-3-21c	542682	U7 (RG 58 C/U)	76 Z-0-3-8*	12.0 g	9105

for separately crimping inner and outer contact use crimp insert 2B

* suitable for large crimp tool and table press

right angle plugs

cable entry crimp

inner contacts soldered

taper sleeves
see page 262

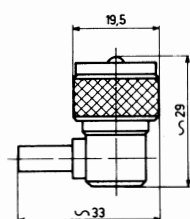


Fig. 1

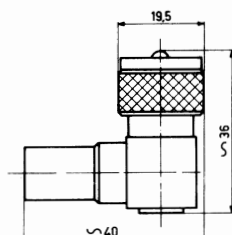


Fig. 2



SUHNER TYPE	Ident. no.	Cable group (example)	Insulation	Crimp insert	Fig.	Weight	AI
16 UHF-0-3-4	542757	U7 (RG 58 C/U)	PTFE	B	1	34.0 g	3058
16 UHF-0-7-4c	542766	U29 (RG 213/U)	PTFE	D	2	58.0 g	3076

straight jacks

SUHNER full crimp

taper sleeves
see page 262

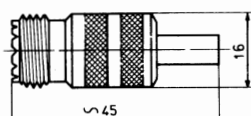


Fig. 1

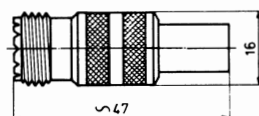
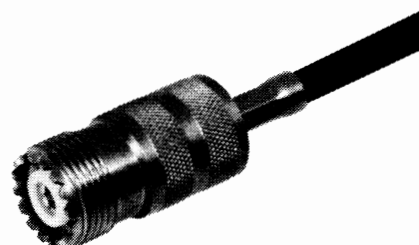


Fig. 2

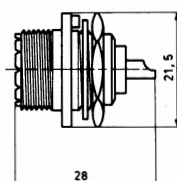


SUHNER TYPE	Ident. no.	Cable group (example)	Insulation	Crimp insert	Fig.	Weight	AI
21 UHF-0-3-3c	542770	U7 (RG 58 C/U)	PTFE	2B	1	33.0 g	3075
21 UHF-0-4-3c	542772	U16 (RG 59 B/U)	PTFE	2C	1	34.0 g	3075
21 UHF-0-7-4c	542775	U29 (RG 213/U)	PTFE	3D	2	36.0 g	3075

Receptacles with Solder End

receptacle, female

bulkhead mounted



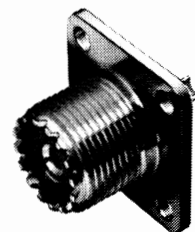
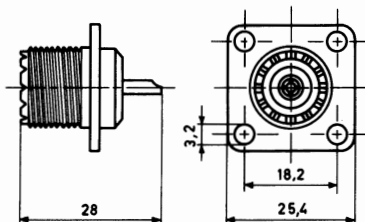
SUHNER TYPE	Ident. no.	Mounting hole	Insulation	MIL-type	Weight
22 UHF-0-0-1	542779	ML 26	PP	UG-223/U	21.0 g

panel thickness 3.5 mm max.

AI = assembly instruction
cable groups see page 17

mounting holes see page 269
assembly tools see page 251

receptacles, female
panel mounted



SUHNER TYPE	Ident. no.	Mounting hole	Insulation	MIL-type	Weight
23 UHF-0-0-1	542786	ML 48	PP	SO-239	22.0 g
23 UHF-0-0-2	542788	ML 48	PTFE	SO-239A	24.0 g

Hoods

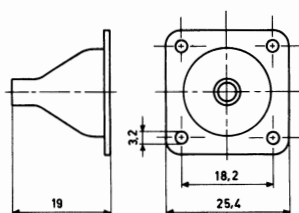


Fig. 1

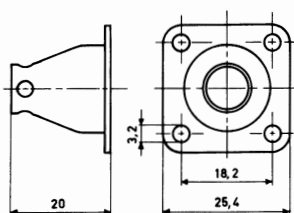
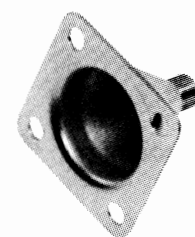


Fig. 2

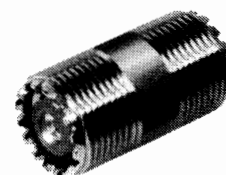
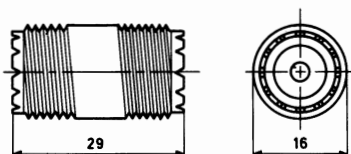


SUHNER TYPE	Ident. no.	Cable group (example)	MIL-type	Fig.	Weight
H 03	542910	U7 (RG 58 C/U)	UG-177/U	1	8.0 g
Ha 07	542913	U28, 31, 33, 35, 37 (RG 213/U)	UG-106/U	2	6.0 g

Within-Series Adaptors

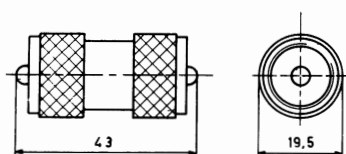
straight adaptors

jack to jack



SUHNER TYPE	Ident. no.	MIL-type	Insulation	Weight
31 UHF-0-0-1	542810	UG - 299/U (PL-258)	PP	21.0 g
31 UHF-0-0-2	542813		PTFE	23.0 g

plug to plug



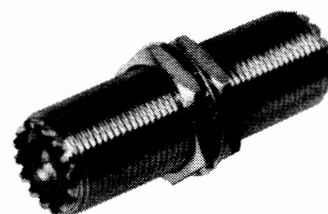
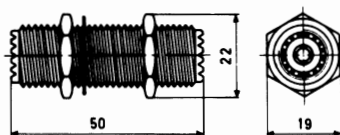
SUHNER TYPE	Ident. no.	Insulation	Weight
32 UHF-0-0-2	542819	PTFE	42.0 g

AI = assembly instruction
cable groups see page 17

mounting holes see page 269
assembly tools see page 251

bulkhead adaptor

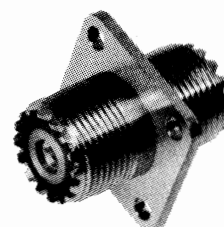
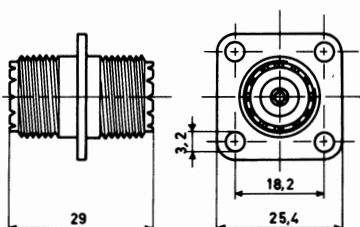
jack to jack



SUHNER TYPE	Ident. no.	MIL-type	Insulation	Mounting hole	Weight
34 UHF-0-0-1	542821	UG-363/U	PP	dia. 16 mm	46.0 g

panel adaptors

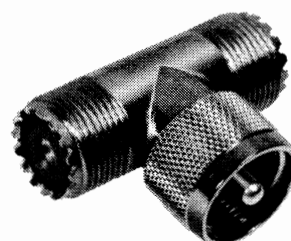
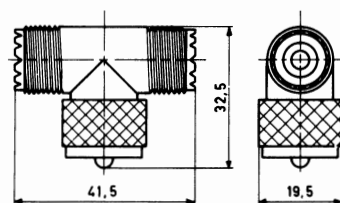
jack to jack



SUHNER TYPE	Ident. no.	MIL-type	Insulation	Mounting hole	Weight
37 UHF-0-0-1	542824	UG-224/U	PP	ML 14	28.0 g
37 UHF-0-0-2	542826		PTFE	ML 14	29.0 g

T-adaptor

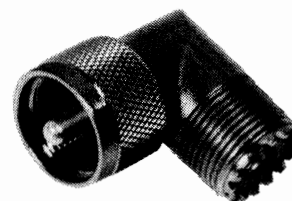
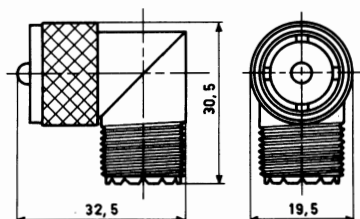
2 jacks
1 plug



SUHNER TYPE	Ident. no.	MIL-type	Insulation	Weight
43 UHF-0-0-1	543459	UG-298/U (M-358)	PP	48.0 g

right angle adaptor

plug to jack



SUHNER TYPE	Ident. no.	MIL-type	Insulation	Weight
53 UHF-0-0-1	542833	UG-646/U (M-359)	PP	39.0 g

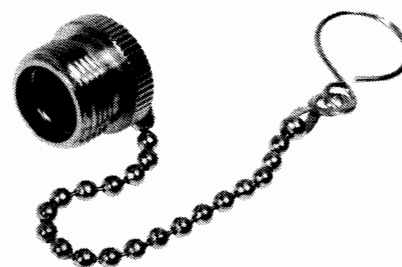
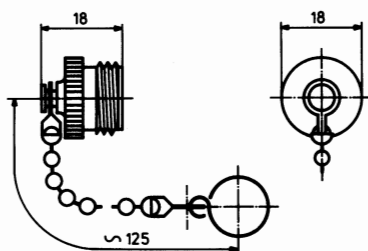
AI = assembly instruction
cable groups see page 17

mounting holes see page 269
assembly tools see page 251

Protective Caps

cap for plugs

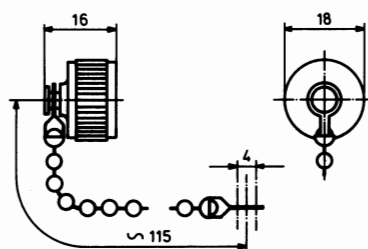
(twin version)



SUHNER TYPE	Ident. no.	Weight	Notes
61 N-0-0-1	542452	16.0 g	with chain and ring

cap for jacks

(coaxial- and twin version)



SUHNER TYPE	Ident. no.	MIL-type	Weight	Notes
62 UHF-0-0-1	542841	MX-913/U	15.0 g	with chain and eye