

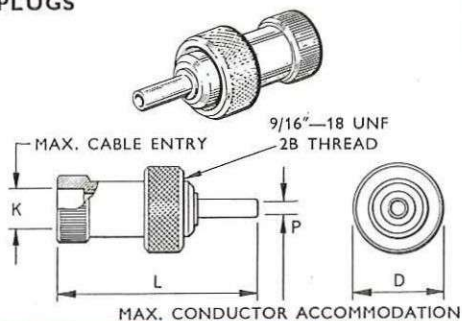
# 1

This catalogue embraces some of the lower cost, general purpose co-axial connectors produced by Cannon. Cannon co-axial plugs are used in thousands of military, industrial and commercial applications. They are designed to connect and terminate co-axial lines used in radio frequency transmission with a minimum loss of energy.

Special plating finishes on shells are available upon request.

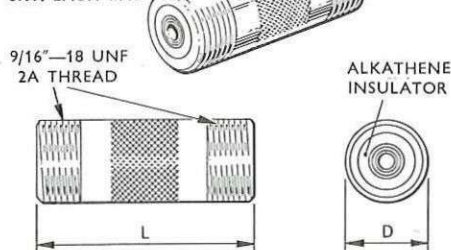
- Shells of brass, cadmium plated.
- Screw thread type coupling.
- Polythene, P.T.F.E., or ceramic insulators.
- Contacts machined from brass, silver plated, with solder terminations.
- Free plugs with cable entries of .250, .300 and .375.
- Inexpensive, miniature co-axial not designed for constant impedance, use should be limited for frequencies below 200 MHz.

## PLUGS



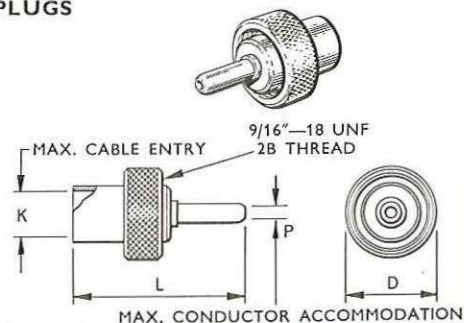
PART NUMBER	D	K	L	P	INSERT MATL.
JP1-250-CCT	11/16	.250	1.5/8	.078	P.T.F.E.
JP1-300-CCT	11/16	.295	1.5/8	.078	P.T.F.E.

## IN LINE ADAPTOR



PART NUMBER	D	L
JS-1-DE	9/16	1.5/8

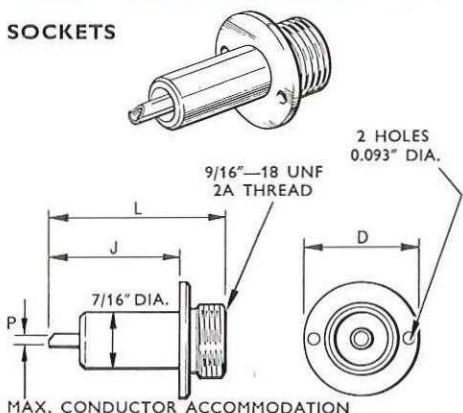
## PLUGS



PART NUMBER	D	K	L	P	INSERT MATL.
JP-1-250	11/16	1/4	1.17/64	.078	CERAMIC
JP-1-375	11/16	3/8	1.11/32	.078	CERAMIC

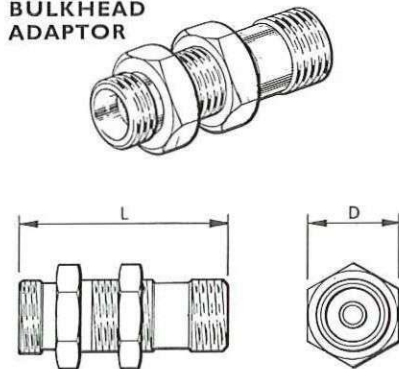
# Jones Co-axials.

## SOCKETS



PART NUMBER	D	J	L	P	INSERT MATL.
JS-1-PF	7/8	1.1/32	1.3/8	.096	ALKATHENE
JSF-1-PF	7/8	1.1/32	1.3/8	.096	P.T.F.E.

## BULKHEAD ADAPTOR



PART NUMBER	D	L	INSERT MATL.
JS-1-BHF	11/16 A/F	1.5/8	ALKATHENE

## SOCKET DUST CAP

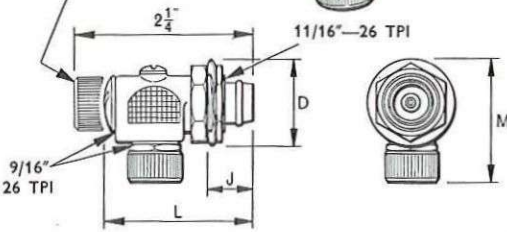


PART NUMBER	D	L
JS-1-DC	11/16	3/16

- Aluminium alloy shells with alkathene insulators.
- Silver plated brass contacts, sockets with beryllium copper spring.
- Nominal 60 ohm impedance when free units are potted with suitable sealing compound, such as Okerin Wax No. 3700.
- Insulation resistance not less than 100 megohms, at 500V, D.C.
- Voltage proof 2,000V peak, working voltage 500V peak, measured at 750mm.Hg.
- Contact resistance—better than 2 milliohms and screen continuity better than 1 milliohm.
- Fulfills requirements of DEF.5322 with respect to V.S.W.R.
- Temperature range of -40°C to +85°C, Humidity requirements to DEF. 5322, Class H.1.

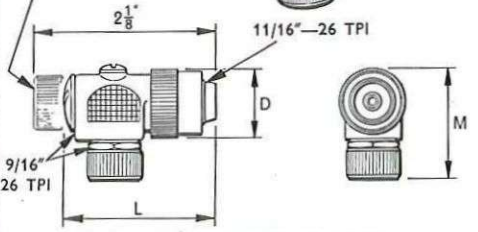
### FIXED SOCKET MALE SHELL

ALTERNATIVE POSITION OF CABLE ENTRY



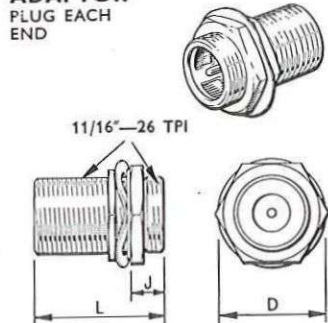
### FREE SOCKET MALE SHELL

ALTERNATIVE POSITION OF CABLE ENTRY



PART NUMBER	D	J	L	M	SERVICE REF. No.	PART NUMBER	D	L	M	SERVICE REF. No.
RFS-1-PF-CT	1	35/64	1.7/8	1.7/16	Z 549027	RFS-1-CF-CT	13/16	1.3/4	1.11/32	Z 549028

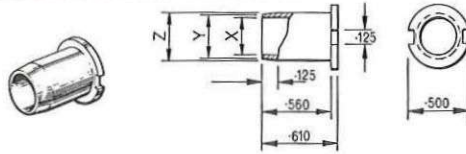
### ADAPTOR PLUG EACH END



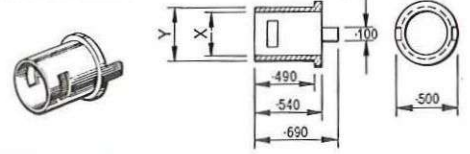
SERVICE REF. No. Z540103

PART NUMBER	D	J	L
RFP-1-BHF	1	9/32	1.3/16

### SLEEVE INNER, RF SINGLE POLE, PLUG & SOCKET



### SLEEVE OUTER, RF SINGLE POLE, PLUG & SOCKET



CABLE SIZE	"X" DIA	"Y" DIA	"Z" DIA	J.S.CAT.No. 5935-99-	CANNON P/No.	CABLE SIZE	"X" DIA	"Y" DIA	J.S.CAT.No. 5935-99-	CANNON P/No.
UNIRADIO No.31	.300	.315	.330	054-9013	252-7554-000	UNIRADIO No.31	.367	.400	054-9014	252-7569-000
UNIRADIO No.39	.210	.230	.250	054-9015	252-7556-000	UNIRADIO No.39	.281	.325	054-9016	252-7571-000
UNIRADIO No.41	.137	.150	.167	054-9017	252-7555-000	UNIRADIO No.41	.199	.237	054-9018	252-7570-000
UNIRADIO No.42	.300	.315	.330	054-9013	252-7554-000	UNIRADIO No.42	.367	.400		252-7569-000
UNIRADIO No.43	.125	.138	.155	054-9019	252-7557-000	UNIRADIO No.43	.185	.220	054-9020	252-7577-000
UNIRADIO No.54	.137/.131	.152/.146	.164/.161	054-9021	252-7558-000	UNIRADIO No.54	.270/.267	.310	054-9022	252-7573-000
UNIRADIO No.55	.137/.134	.152/.146	.164/.161	054-9023	252-7559-000	UNIRADIO No.55	.223/.220	.250	054-9024	252-7574-000
UNIRADIO No.56	.137	.150	.167	054-9017	252-7555-000	UNIRADIO No.56	.199	.237	054-9018	252-7570-000
UNIRADIO No.57	.300	.315	.330	054-9013	252-7554-000	UNIRADIO No.57	.367	.400	054-9014	252-7569-000
UNIRADIO No.58	.300	.315	.330		252-7554-000	UNIRADIO No.58	.435	.465		252-7576-000
UNIRADIO No.59	.300	.315	.330	054-9013	252-7554-000	UNIRADIO No.59	.367	.400	054-9014	252-7569-000
UNIRADIO No.60	.293/.290	.303/.300	.336/330	054-9025	252-7560-000	UNIRADIO No.60	.403/.397	.440	054-9026	252-7575-000
UNIRADIO No.64	.300	.315	.330	054-9013	252-7554-000	UNIRADIO No.64	.367	.400	054-9014	252-7569-000
UNIRADIO No.65	.300	.315	.330	054-9013	252-7554-000	UNIRADIO No.65	.367	.400	054-9014	252-7569-000
UNIRADIO No.67	.300	.315	.330	054-9013	252-7554-000	UNIRADIO No.67	.367	.400	054-9014	252-7569-000
UNIRADIO No.70	.137	.152	.167	054-9017	252-7555-000	UNIRADIO No.70	.199	.237	054-9018	252-7570-000
UNIRADIO No.71	.293/.290	.303/.300	.336/330		252-7560-000	UNIRADIO No.71	.403/.397	.440		252-7575-000
UNIRADIO No.72	.125	.140	.155	054-9019	252-7557-000	UNIRADIO No.72	.185	.220	054-9020	252-7578-000
UNIRADIO No.73	.300	.315	.330	054-9013	252-7554-000	UNIRADIO No.73	.367	.400	054-9014	252-7569-000
UNIRADIO No.78	.300	.315	.330	054-9013	252-7554-000	UNIRADIO No.78	.367	.400	054-9014	252-7569-000
UNIRADIO No.81	.300	.315	.330	054-9013	252-7554-000	UNIRADIO No.81	.367	.400	054-9014	252-7569-000
PT. I. YM	.140	.154	.168		252-7562-000	PT. I. YM	.277	.307		252-7579-000
PT. II. YM	.210	.230	.250		252-7556-000	PT. II. YM	.320	.350		252-7580-000
AS.50.M	.191	.206	.220		252-7563-000	AS.50.M	.257	.287		252-7581-000
AS.95.M	.157	.170	.187		252-7564-000	AS.95.M	.209	.239		252-7582-000
T.3188	.104	.119	.133		252-7565-000	T.3188	.172	.202		252-7583-000
K.16M	.096	.111	.125		252-7566-000	K.16M	.161	.191		252-7584-000
MINIATURE I.C. 14/.0076	.085	.100	.115		252-7567-000	MINIATURE I.C. 14/.0076	.130	.160		252-7585-000
C.I.T.	.230	.245	.260		252-7568-000	C.I.T.	.320	.350		252-7586-000
E.T.6.M.	.104	.119	.133		252-7565-000	E.T.6.M.	.161	.191		252-7584-000

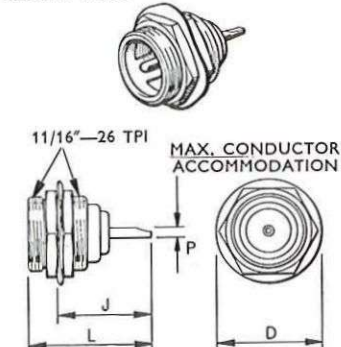
### SKETCH OF TYPICAL ASSY. INNER & OUTER SLEEVES

NOTE: 1 INNER SLEEVE AND 1 OUTER SLEEVE MUST BE USED WITH EVERY RFS-1-PF-CT AND RFS-1-CF-CT



## RF Co-axials

### PLUG FIXED FEMALE SHELL

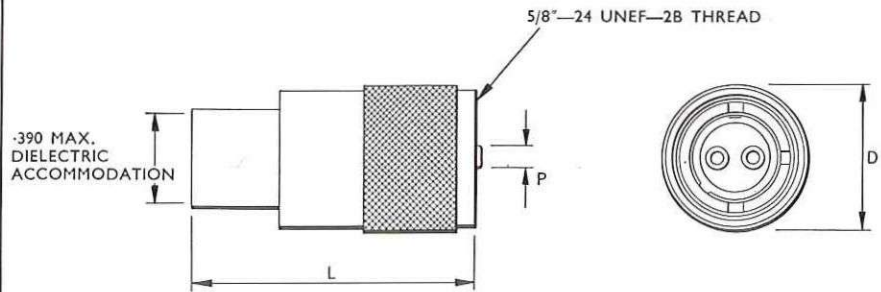
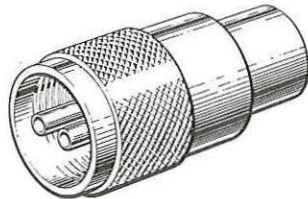


SERVICE REF. No. Z 540101

PART NUMBER	D	J	L	P
RFP-1-PF	1	29/32	1.3/16	.0435 DIA.

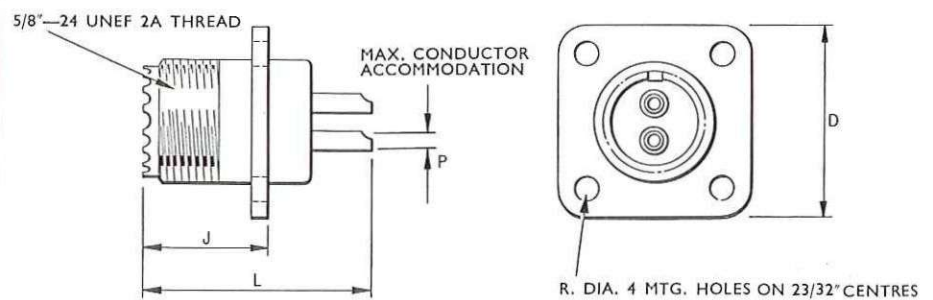
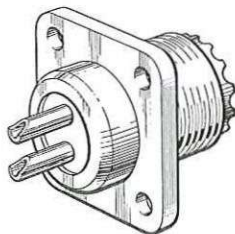


## PLUGS



PART NUMBER	D	L	P	INSERT MATL.
PL 284F	3/4	1.1/2	.069	P.T.F.E.

## RECEPTACLES

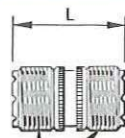
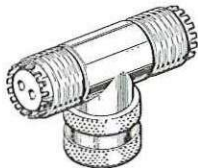


PART NUMBER	D	J	L	P	R	INSERT MAT
SO 264	1	5/8	1.1/8	.067	.125	ALKATHEN
SO 264F	1	5/8	1.1/8	.067	.125	P.T.F.E.

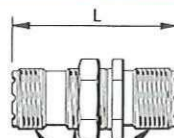
# UHF Twin-axial

- Silver plated brass, aluminium alloy or mazak shells.
- Solder type, silver plated brass contacts.
- Insulators of polythene or P.T.F.E.
- Six basic shell styles.
- Screw thread type coupling.
- Not designed as constant impedance connectors.
- Designed for frequencies up to 200 MHz and can be used with caution up to 500 MHz.
- Working voltage of co-ax, up to 500V peak.

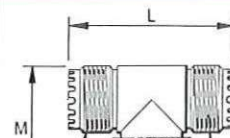
## ADAPTORS



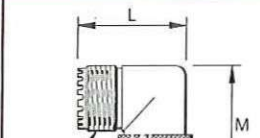
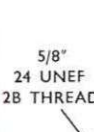
5/8"–24 UNEF 2A THREAD



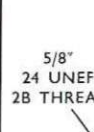
5/8"–24 UNEF 2A THREAD



5/8"–24 UNEF 2A THREAD

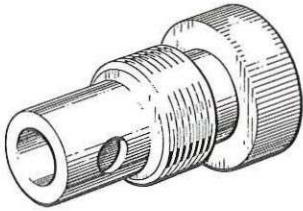


5/8"–24 UNEF 2A THREAD

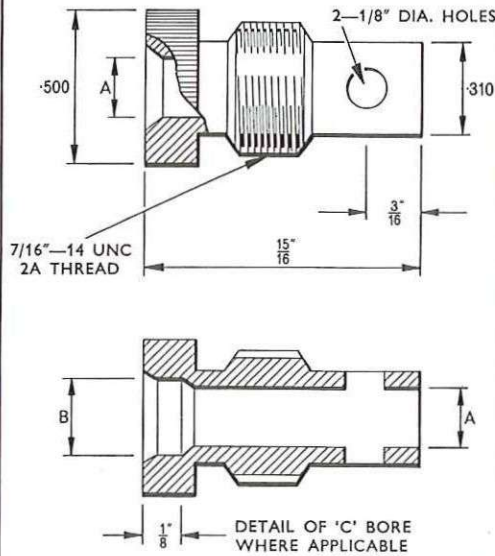


* = INSERT MATL.	PART NUMBER	D	L	*	PART NUMBER	D	L	*	PART NUMBER	D	L	M	*	PART NUMBER	D	L	M
1 = ALKATHENE	PL 285	5/8	1.1/8	1	PL 275	11/16 A/F	1.5/8	1	UG/196/U	3/4	1.5/8	1.3/16	1	PL 293	3/4	1.3/16	1.7/32

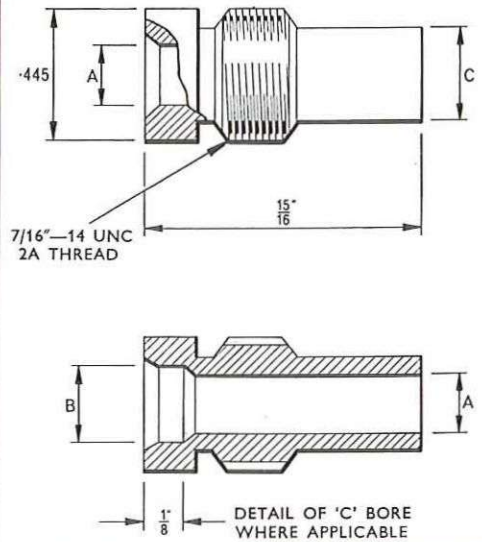
## REDUCING ADAPTORS FOR PLUGS



### ADAPTORS FOR PL259F AND PL284F



### ADAPTORS FOR PL259A/F



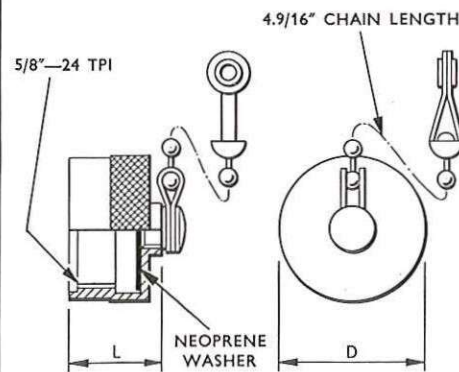
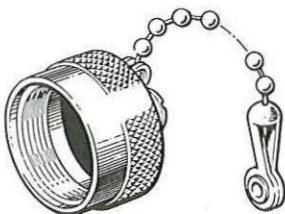
PART NUMBER	MILITARY NUMBER	U.S. PART No.	'A' DIA	'B' DIA	CABLE	PART NUMBER	MILITARY NUMBER	'A' DIA	'B' DIA	'C' DIA	CABLE
AD-259-255	UG 176/U	83-168	.255		U/R 32	AD-259A/F-255		.255		.310 .305	U/R 32
AD-259-209	UG 175/U	83-185	.209 4 DRILL		U/R 43, P.T.9	AD-259A/F-209		.209 4 DRILL		.310 .305	U/R 43, P.T.9
AD-259-277			.277 J' DRILL		D/R 28, BA3, K12	AD-259A/F-277		.277 J DRILL		.310 .305	D/R 28, BA3, K12
AD-259-323			.255	.323 P' DRILL	U/R 39, P.T.11M	AD-259A/F-323		.255	.323 P' DRILL	.310 .305	U/R 39, P.T.11M
AD-259-290			.220	.290	DURADIO 68	AD-259A/F-296	UG 173/U	.296		.328	RG-38, 39/U
AD-259-219			.219			AD-259A/F-203		.203		.312	RG-58/U
						AD-259A/F-250		.250		.312	RG-59, 62, 71/U

## U.H.F. Co-ax./Twin-ax. Accessories

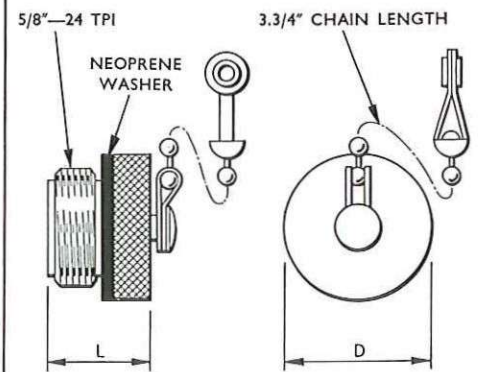
### CONVERSION TABLE

Ins. 1/32 - 0.7937 mm	Ins. 9/32 - 7.1437 mm	Ins. 17/32 - 13.4937 mm	Ins. 25/32 - 19.8437 mm
1/16 - 1.5875	5/16 - 7.9375	9/16 - 14.2875	13/16 - 20.6375
3/32 - 2.3812	11/32 - 8.7312	19/32 - 15.0812	27/32 - 21.4312
1/8 - 3.1750	3/8 - 9.5250	5/8 - 15.8750	7/8 - 22.2250
5/32 - 3.9687	13/32 - 10.3187	21/32 - 16.6687	29/32 - 23.0187
3/16 - 4.7625	7/16 - 11.1125	11/16 - 17.4625	15/16 - 23.8125
7/32 - 5.5562	15/32 - 11.9062	23/32 - 18.2562	31/32 - 24.6062
1/4 - 6.3500	1/2 - 12.7000	3/4 - 19.0500	1 - 25.4000

## DUST CAPS



MATERIAL—ALUMINIUM ALLOY



NOTE: CANNOT BE USED WITH PL 284 OR PL 284F

PART NUMBER	D	L	PART NUMBER	D	L
DC. 239	3/4	13/32	DC. 259	3/4	17/32

**SERIES UHF  
ASSEMBLY OF CABLES TO PL259/F PLUG  
USING REDUCING ADAPTORS**



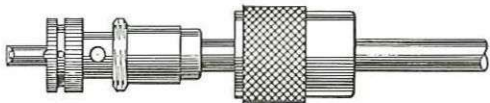
Cut end of cable even. Remove vinyl jacket  $\frac{3}{8}$ ". Slide coupling ring and adaptor on cable.



Fan braid slightly and fold back as shown.



Position adaptor to dimension shown. Press braid down over body of adaptor and trim to  $\frac{3}{8}$ ". Bare  $\frac{5}{8}$ " of conductor. Tin exposed centre conductor.



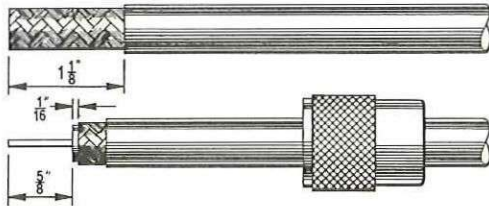
Screw plug sub-assembly on adaptor. Solder braid to shell through solder holes. Use enough heat to create bond of braid to shell. Solder conductor to contact.



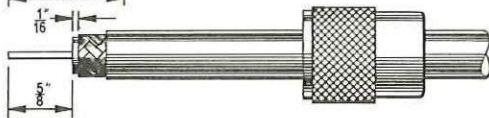
For final assembly, screw coupling ring on plug sub-assembly.

## Assembly Instructions

**ASSEMBLY OF CABLES TO PL259/F PLUG WITHOUT REDUCING ADAPTORS**



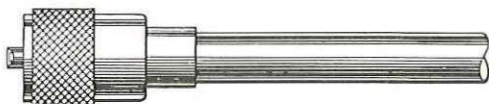
Cut end of cable even. Remove vinyl jacket  $1\frac{1}{8}$ ".



Bare  $\frac{5}{8}$ " of centre conductor. Trim braided shield. Slide coupling ring on cable. Tin exposed centre conductor and braid.



Screw the plug sub-assembly on cable. Solder assembly to braid through solder holes. Use enough heat to create bond of braid to shell. Solder centre conductor to contact.



For final assembly, screw coupling ring on plug sub-assembly.