

BNC Series - C5 (50 Ω) / C7 (75 Ω)



FEATURES :

- Bayonet coupling
- Brass and zinc alloy available
- 50Ω and 75Ω intermateable
- Many Cable & PCB options
- Delrin or Teflon insulators available

APPLICATIONS :

- Antennas
- Broadcast & Video
- LANS/Computers
- Oscilloscopes
- Medical Equipment
- Wireless Network Antennas

BNC



ELECTRICAL SPECIFICATIONS

<u>Impedance</u>	<u>50 Ω / 75 Ω</u>
<u>Frequency Range</u>	<u>0 – 4 GHz / 0 - 3 GHz</u>
<u>Working Voltage</u>	<u>\geq 500 VRMS</u>
<u>Dielectric Withstanding Voltage</u>	<u>1500 VRMS at sea level</u>
<u>VSWR</u>	<u>Straight : 1.15 max</u>
	<u>Right Angle : 1.2 max</u>
<u>Contact Resistance</u>	<u>Center Contact : \leq 1.5 mΩ</u>
	<u>Outer Contact : \leq 0.2 mΩ</u>
<u>Insulation Resistance</u>	<u>5,000 MΩ min.</u>
<u>Insertion loss</u>	<u>0.2dB max.</u>

MATERIAL SPECIFICATIONS

<u>Body and outer contacts</u>	<u>Brass, nickel plated</u>
<u>Male contact</u>	<u>Brass, gold plated</u>
<u>Female contact</u>	<u>Phosphor Bronze, gold plated</u>
<u>Insulator</u>	<u>Delrin or PTFE</u>
<u>Crimp ferrule</u>	<u>Copper or brass, nickel plated</u>

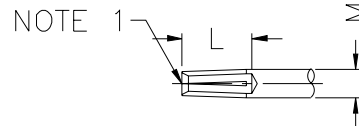
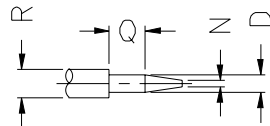
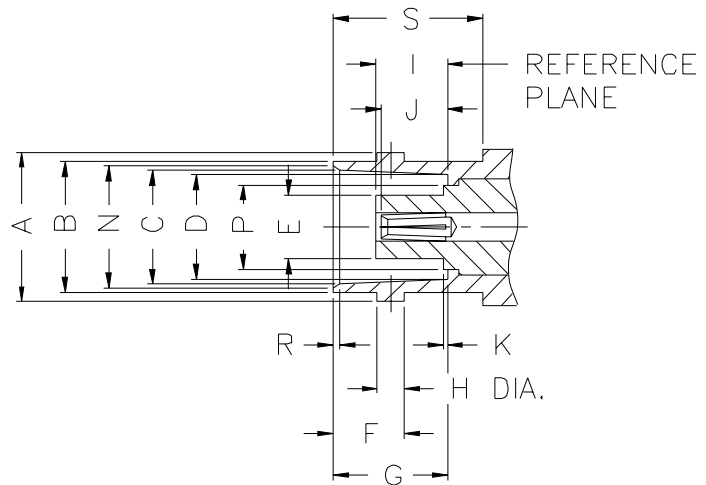
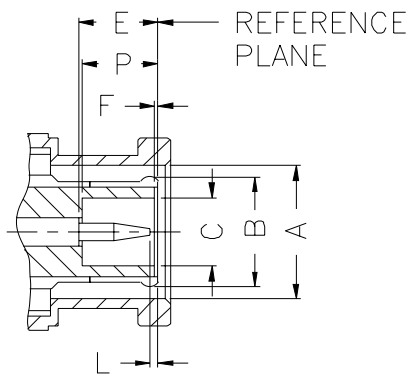
MECHANICAL SPECIFICATIONS

<u>Coupling nut retention force</u>	<u>101 lbs</u>
<u>Center contact Retention</u>	<u>\geq 6 lbs</u>
<u>Engagement force</u>	<u>\leq 5 lbs</u>
<u>Disengagement force</u>	<u>\geq 1.5 lbs</u>
<u>Cable retention</u>	<u>20 - 70 lbs</u>
<u>Durability (matings)</u>	<u>500 cycles min.</u>

ENVIRONMENTAL

<u>Temperature Range</u>	<u>-65°C to +165°C</u>
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INTERFACE MATING DIMENSIONS



PLUG		
Letter	Millimeters	
	Minimum	Maximum
A	9.78	9.91
B	Flared To Meet Good Electrical Contact	
C	4.83	-
D	1.32	1.37
E	5.33	5.84
F	0.15	0.46
L	0.08	1.02
N	-	0.64
P	5.28	5.79
Q	1.98	-
R	2.06	2.21

JACK		
Letter	Millimeters	
	Minimum	Maximum
A	10.97	11.07
B	9.60	9.70
C	8.31	8.46
D	8.10	8.15
E	-	4.72
F	5.18	5.28
G	8.31	8.51
H	1.91	2.06
I	4.78	5.28
J	4.72	5.23
K	-	0.15
L	4.95	-
M	2.06	2.21
N	8.79	9.04
P	-	6.50
R	0.38	0.76
S	10.52	-

Note 1 : I.D. to meet VSWR and contact resistance when mated with 1.32/1.37 mm dia. pin.

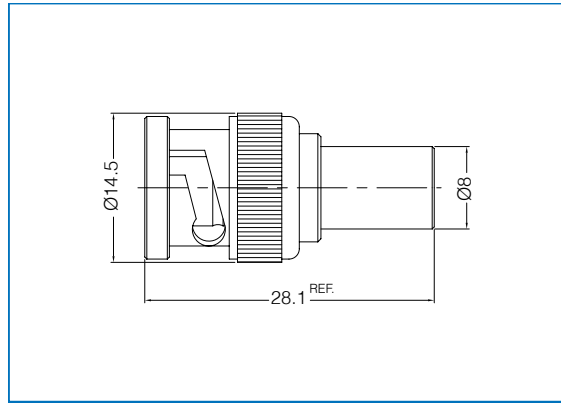
Terminator Plug

CYM11A-TERN01

1 Watt

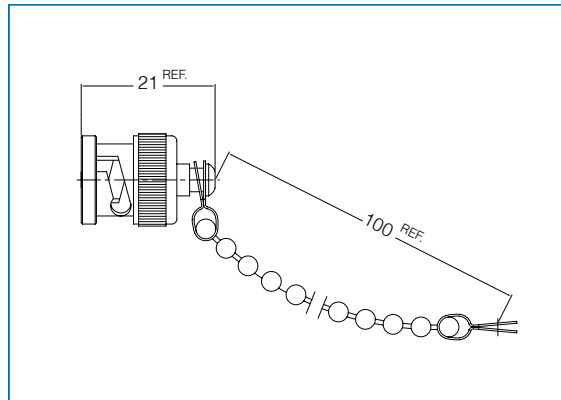
Impedance $\gamma = 5 = 50 \text{ Ohm}$

$\gamma = 7 = 75 \text{ Ohm}$



Male Cap with Chain

C5M12A-TERN01



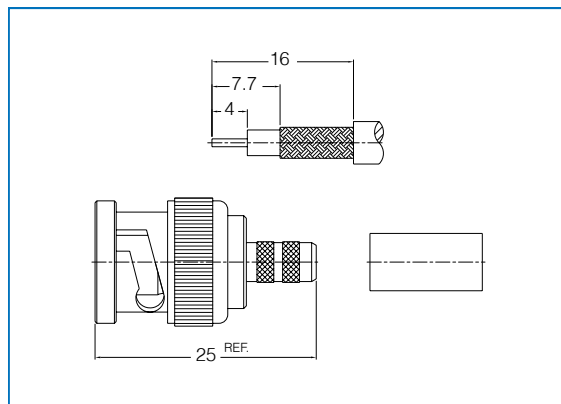
Straight Plug, Crimp

CYM11A-AXXN01

Cable group : 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 22, 23, 25, 26, 27, 34, 35, 36, 37, 38

Impedance $\gamma = 5 = 50 \text{ Ohm}$

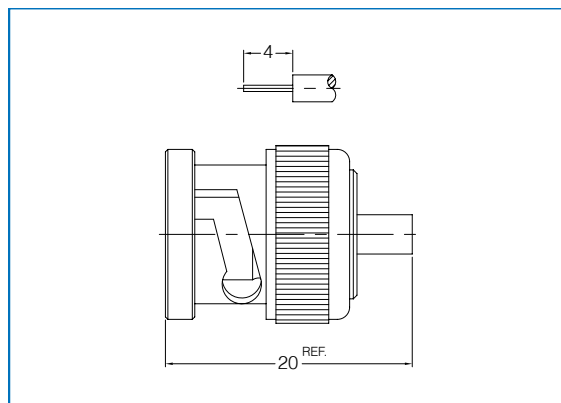
$\gamma = 7 = 75 \text{ Ohm}$



Straight Plug, Solder

C5M11B-AXXN01

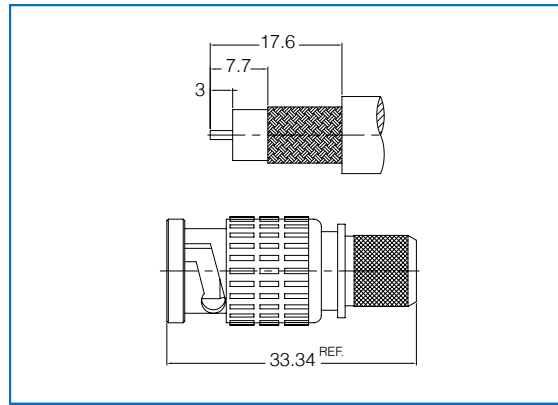
Cable group : 28, 29, 33



Straight Plug, Crimp, long Coupling Nut

C7M13A-AXXN01

Cable group : 10, 15, 20



Cable Groups

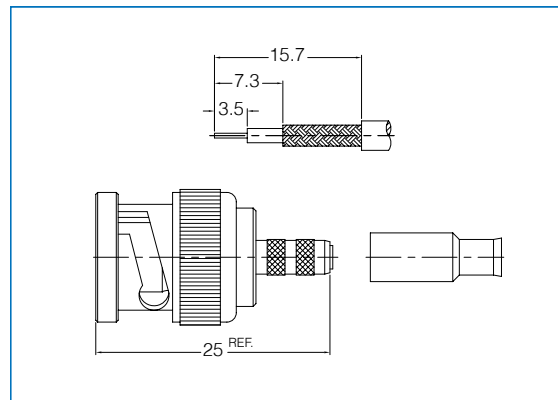
Straight Plug, Crimp with Delrin Sleeve

CYM11C-AXXN01

Cable group : 02, 03, 04, 05

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$



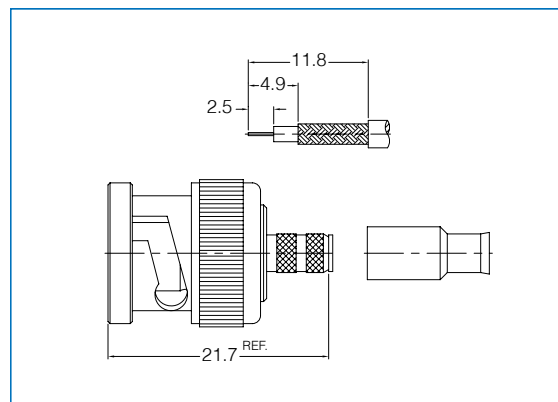
A01 - 500 - RG-178, 196
 A02 - 500 - RG-174, 188A, 316, LMR100
 A03 - 750 - RG-179, 187
 A04 - 500 - RD-316/U
 A05 - 750 - RD-179/U
 A06 - 500 - RG-58, 58A, 58C, 141, LMR195
 A07 - 500 - RG-55, 142, 223, 400
 A08 - 500 - LMR200
 A09 - 500 - RG-59/U Plenum
 A10 - 750 - RG-59, 62
 A11 - 750 - Belden 1505A
 A12 - 750 - Belden 8281
 A13 - 750 - RG-59/U Quad Shield
 A14 - 750 - RG-59/U Plenum

Straight Plug, Crimp

C7M12B-AXXN01

Cable group : 03, 05

* TPX Insulator



A15 - 750 - RG-6
 A16 - 500 - 8X, LMR240
 A17 - 500 - LMR400, Belden 9913
 A18 - 500 - RG-8, 8A, 9, 213, 214
 A19 - 750 - RG6/U, Quad
 A20 - 750 - RG-11
 A21 - 750 - Belden 1694A
 A22 - 750 - AT&T 734A
 A23 - 750 - AT&T 735A
 A24 - 500 - LMR600
 A25 - 750 - Belden 1696A
 A26 - 750 - Belden 8218
 A27 - 750 - BT-3002
 A28 - 500 - 0885, 0885RF, RG-405/U

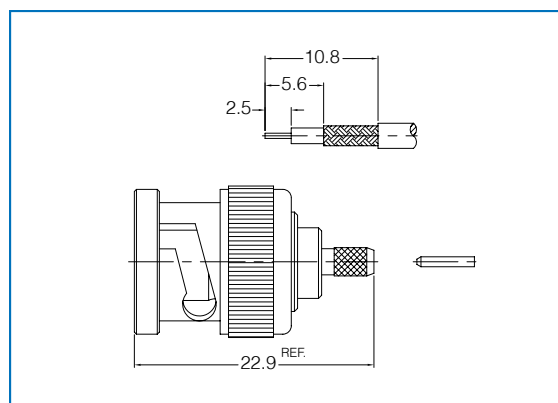
Straight Plug, Crimp-Pin in Pin

CYM14A-AXXN01

Cable group : 01, 02, 03, 04, 05

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$



A29 - 500 - 141SR, RG-402/U
 A30 - 500 - 1.13mm OD micro
 A31 - 500 - 1.32mm OD micro
 A32 - 500 - 1.37mm OD micro
 A33 - 500 - 047SR cable
 A34 - 750 - FLEX 2
 A35 - 750 - FLEX 3
 A37 - 750 - FLEX 5
 A38 - 500 - 3D-2V
 A39 - 500 - 5D-2V
 A40 - 500 - 8D-2V
 A41 - 500 - 5D-FB, LMR300
 A42 - 500 - 1/4" Superflex
 A43 - 500 - 1/2" Superflex

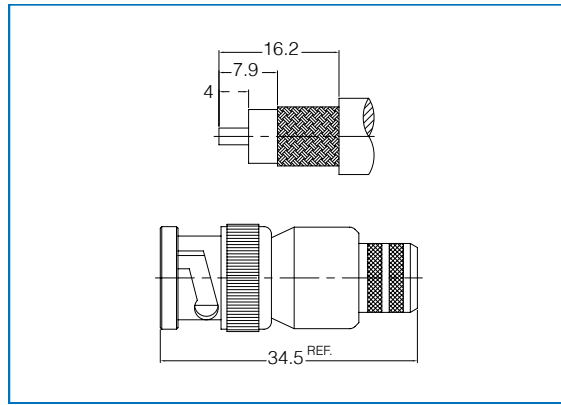
Straight Plug, Crimp

CYM15A-AXXN01

Cable group : [17](#), [18](#), [19](#), [20](#)

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$



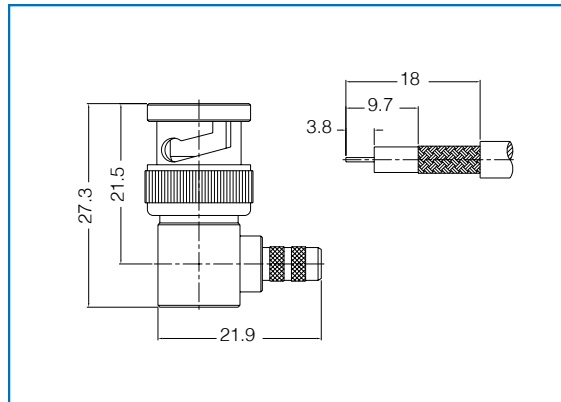
Right Angle Plug, Crimp

CYM21A-AXXN01

Cable group : [06](#), [07](#), [08](#), [09](#), [10](#), [11](#),
[12](#), [15](#), [16](#)

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$



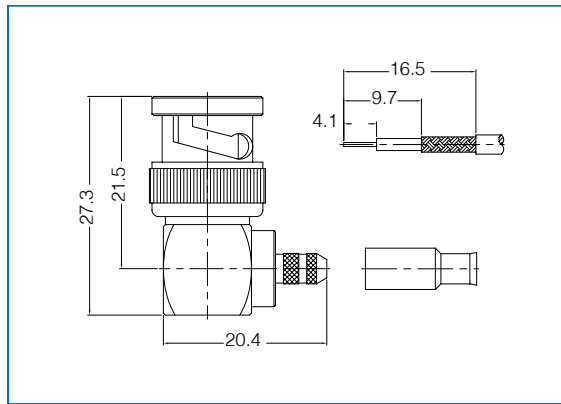
Right Angle Plug, Crimp

CYM21B-AXXN01

Cable group : [02](#), [03](#), [04](#), [05](#)

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$



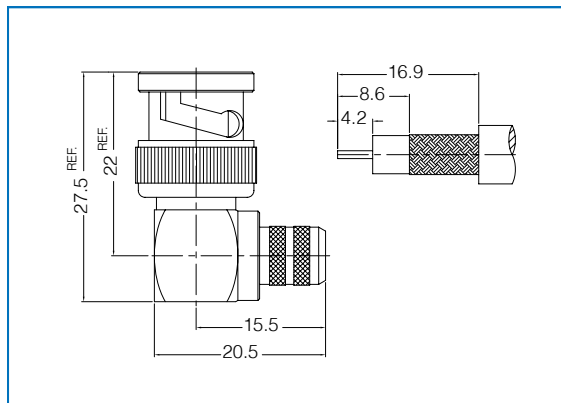
Right Angle Plug, Crimp

CYM21C-AXXN01

Cable group : [17](#), [18](#), [19](#), [20](#), [24](#)

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$



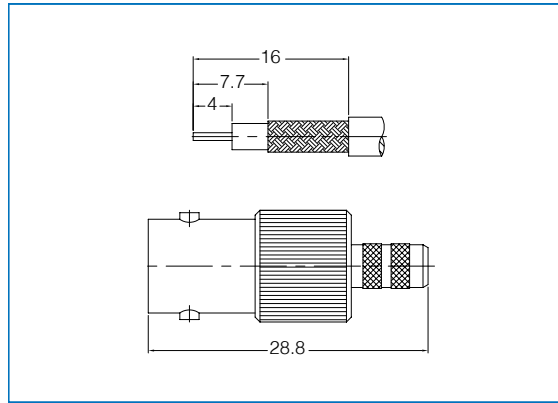
Straight Jack, Crimp

CYF11A-AXXN01

Cable group : [06](#), [07](#), [08](#), [09](#), [10](#), [11](#), [12](#),
[13](#), [14](#), [15](#), [16](#), [21](#), [22](#), [23](#), [25](#), [26](#), [27](#)

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$



Cable Groups

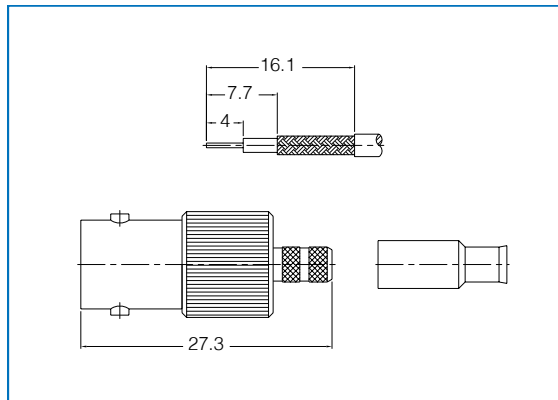
Straight Jack, Crimp with Delrin Sleeve

CYF11B-AXXN01

Cable group : [02](#), [03](#), [04](#), [05](#)

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$



A01 - 500 - RG-178, 196	A08 - 500 - LMR200	A15 - 750 - RG-6	A22 - 750 - AT&T 734A	A29 - 500 - 141SR, RG-402U	A37 - 750 - FLEX 5
A02 - 500 - RG-174, 188A, 316, LMR100	A09 - 500 - RG-59U Plenum	A16 - 500 - 8X, LMR240	A23 - 750 - AT&T 735A	A30 - 500 - 1.13mm OD micro	A38 - 500 - 30-2V
A03 - 750 - RG-179, 187	A10 - 750 - RG-59, 62	A17 - 500 - LMR400, Beiden 9913	A24 - 500 - LMR600	A31 - 500 - 1.32mm OD micro	A39 - 500 - 5D-2V
A04 - 500 - RD-316/U	A11 - 750 - Beiden 1505A	A18 - 500 - RG-8, 9A, 9, 213, 214	A25 - 750 - Beiden 1696A	A32 - 500 - 1.37mm OD micro	A40 - 500 - 8D-2V
A05 - 750 - RD-179/U	A12 - 750 - Beiden 8281	A19 - 750 - RG6/U, Quad	A26 - 750 - Beiden 8218	A33 - 500 - 047SR cable	A41 - 500 - 5D-FB, LMR300
A06 - 500 - RG-58, 58A, 58C, 141, LMR195	A13 - 750 - RG-59U Quad Shield	A20 - 750 - RG-11	A27 - 750 - BT-3002	A34 - 750 - FLEX 2	A42 - 500 - 1/4" Superflex
A07 - 500 - RG-55, 142, 223, 400	A14 - 750 - RG-59U Plenum	A21 - 750 - Beiden 1694A	A28 - 500 - 0885, 0885R, RG-405U	A35 - 750 - FLEX 3	A43 - 500 - 1/2" Superflex

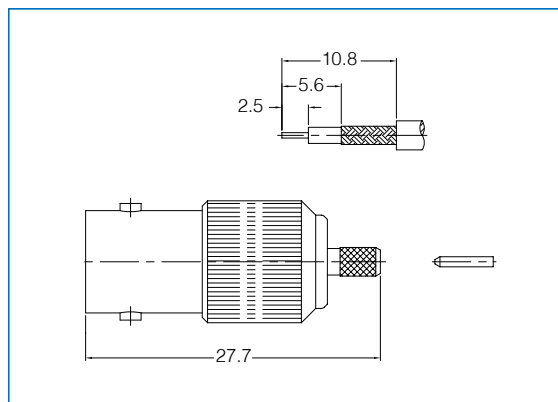
Straight Jack, Crimp-Pin in Pin

CYF14A-AXXN01

Cable group : [01](#), [02](#), [03](#), [04](#), [05](#)

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$



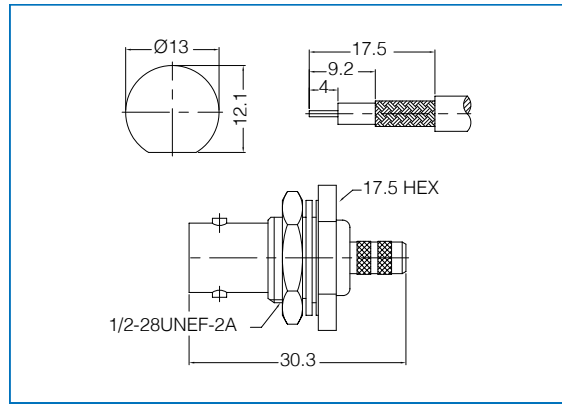
Bulkhead Jack, Crimp

CYF31A-AXXN01

Cable group : 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 21, 22, 23, 25, 26, 27

Impedance Y = 5 = 50 Ohm

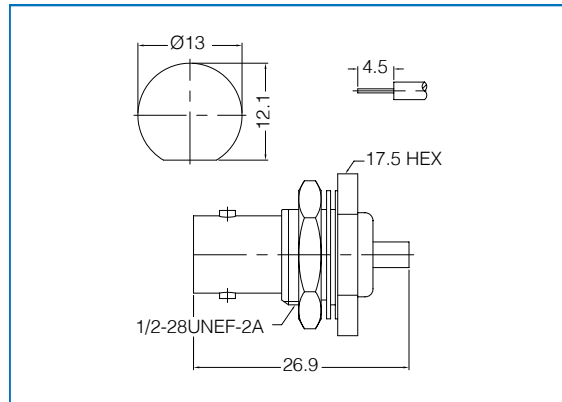
Y = 7 = 75 Ohm



Bulkhead Jack, Solder

C5F31B-AXXN01

Cable group : 28, 29, 33



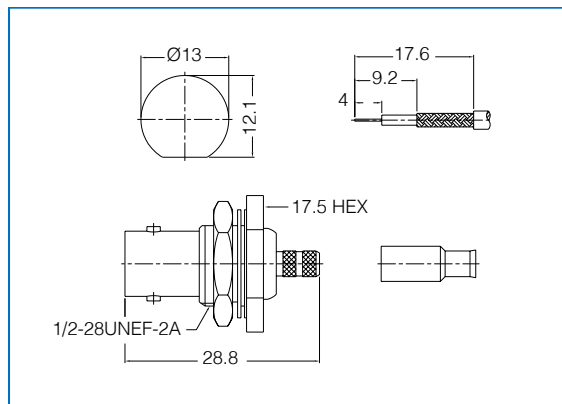
Bulkhead Jack, Crimp with Delrin Sleeve

CYF31C-AXXN01

Cable group : 02, 03, 04, 05

Impedance Y = 5 = 50 Ohm

Y = 7 = 75 Ohm



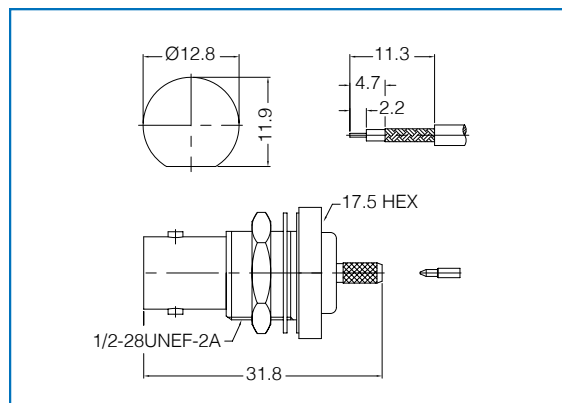
Bulkhead Jack, Crimp-Pin in Pin

CYF32A-AXXN01

Cable group : 01, 02, 03, 04, 05

Impedance Y = 5 = 50 Ohm

Y = 7 = 75 Ohm



Twist-on Plug

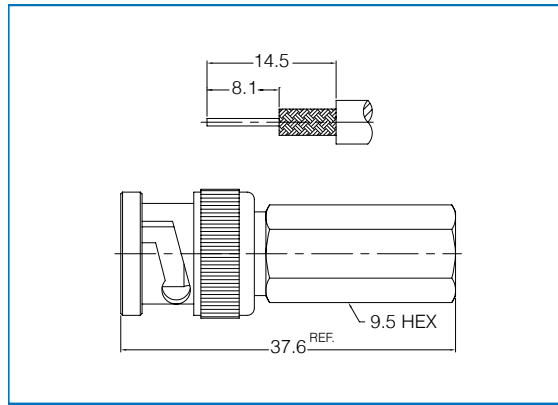
CYM16A-AXXN01

Cable group : [06](#), [09](#), [10](#), [11](#), [14](#)

* Solid Center Conductor Only

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$



Cable Groups

Twist-on Jack

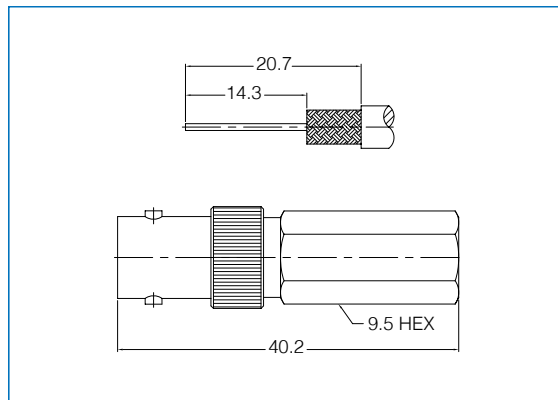
CYF16A-AXXN01

Cable group : [06](#), [09](#), [10](#), [11](#), [14](#)

* Solid Center Conductor Only

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$



A01 - 500 - RG-178, 198
 A02 - 500 - RG-174, 188A, 316, LMR100
 A03 - 750 - RG-179, 187
 A04 - 500 - RD-316/U
 A05 - 750 - RD-179/U
 A06 - 500 - RG-58, 58A, 58C, 141, LMR195
 A07 - 500 - RG-55, 142, 223, 400
 A08 - 500 - LMR200
 A09 - 500 - RG-59/U Plenum
 A10 - 750 - RG-59, 62
 A11 - 750 - Belden 1505A
 A12 - 750 - Belden 8281
 A13 - 750 - RG-59/U Quad Shield
 A14 - 750 - RG-59/U Plenum

A15 - 750 - RG-6
 A16 - 500 - 8X, LMR240
 A17 - 500 - LMR400, Belden 9913
 A18 - 500 - RG-8, 8A, 9, 213, 214
 A19 - 750 - RG6/U, Quad
 A20 - 750 - RG-11
 A21 - 750 - Belden 1694A
 A22 - 750 - AT&T 734A
 A23 - 750 - AT&T 735A
 A24 - 500 - LMR800
 A25 - 750 - Belden 1695A
 A26 - 750 - Belden 8218
 A27 - 750 - BT-3002
 A28 - 500 - 0885R, RG-405/U

A29 - 500 - 141SR, RG-402/U
 A30 - 500 - 1.3mm OD micro
 A31 - 500 - 1.32mm OD micro
 A32 - 500 - 1.37mm OD micro
 A33 - 500 - 047SR cable
 A34 - 750 - FLEX 2
 A35 - 750 - FLEX 3
 A37 - 750 - FLEX 5
 A38 - 500 - 30-2V
 A39 - 500 - 5D-2V
 A40 - 500 - 8D-2V
 A41 - 500 - 5D-FB, LMR300
 A42 - 500 - 1/4" Superflex
 A43 - 500 - 1/2" Superflex

Straight Plug, Clamp

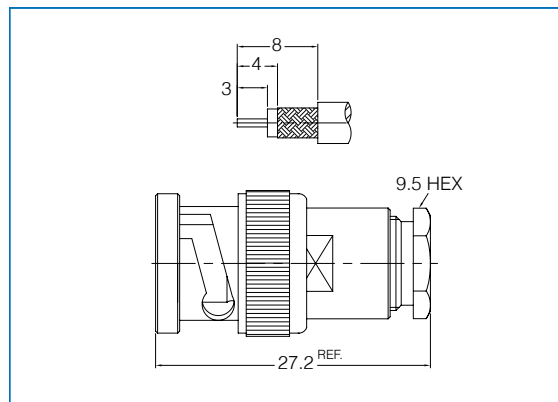
CYM17A-AXXN01

Cable group : [06](#), [10](#)

* Solid Center Conductor Only

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$



Straight Jack, Clamp

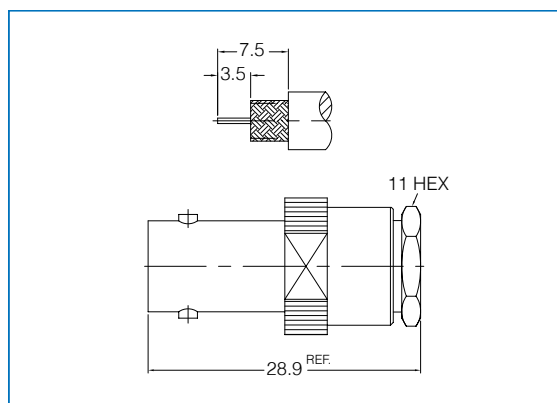
CYF17A-AXXN01

Cable group : [06](#), [10](#)

* Solid Center Conductor Only

Impedance $Y = 5 = 50 \text{ Ohm}$

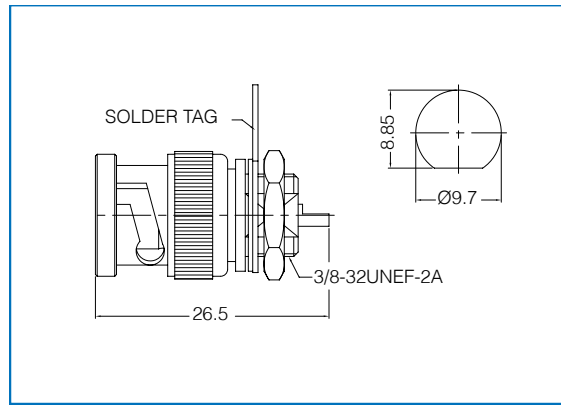
$Y = 7 = 75 \text{ Ohm}$



Bulkhead Receptacle Plug

CYM31A-RECN01

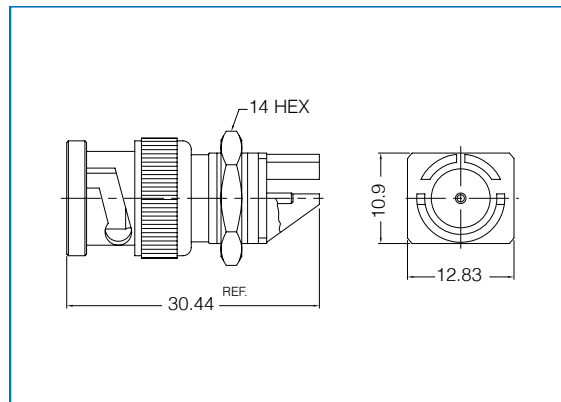
Impedance $\gamma = 5 = 50 \text{ Ohm}$
 $\gamma = 7 = 75 \text{ Ohm}$



End Launch Receptacle Plug

CYM31B-RECN01

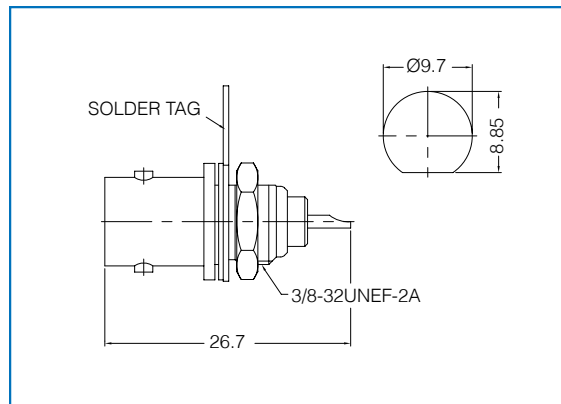
Impedance $\gamma = 5 = 50 \text{ Ohm}$
 $\gamma = 7 = 75 \text{ Ohm}$



Bulkhead Receptacle Jack

CYF31A-RECN01

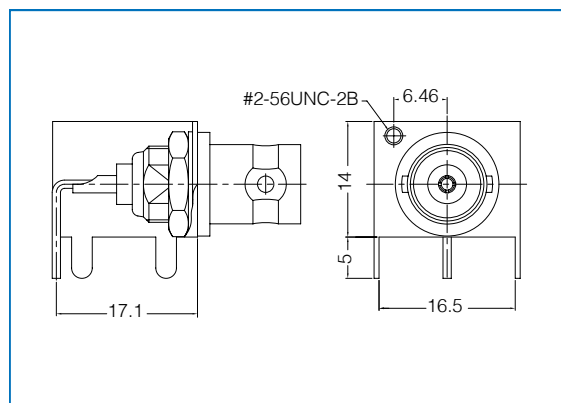
Impedance $\gamma = 5 = 50 \text{ Ohm}$
 $\gamma = 7 = 75 \text{ Ohm}$



Bulkhead Receptacle Jack with Bracket

C5F31B-TPCN01

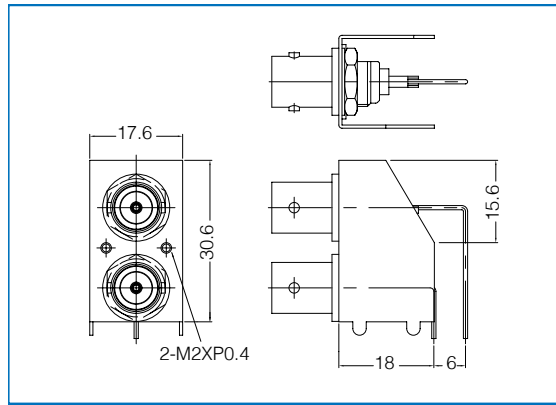
* Material : Die Cast



Dual BNC Bulkhead Receptacle Jack with Bracket

C7F32B-TPCN01

* Material : Die Cast

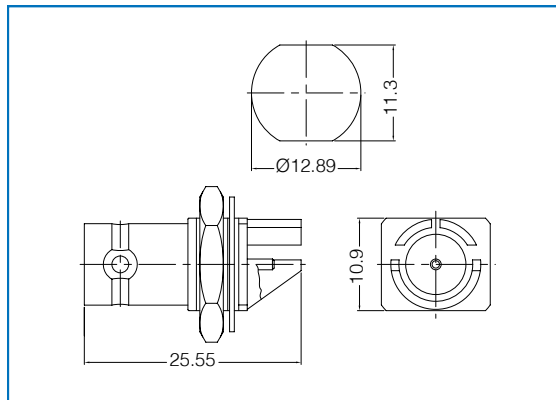


End Launch Receptacle Jack

CYF31B-RECN01

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$

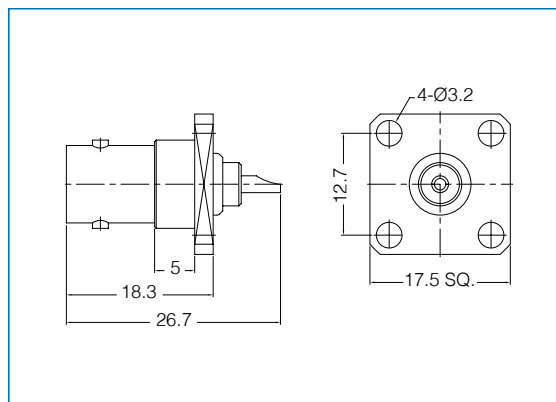


Panel Receptacle Jack

CYF41A-4HLN01

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$

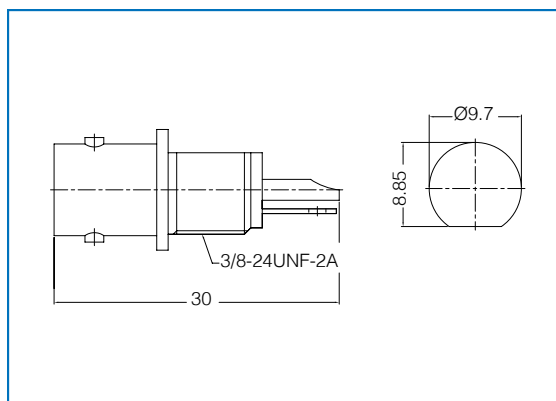


Bulkhead Isolated Receptacle Jack

CYF32A-RECN01

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$



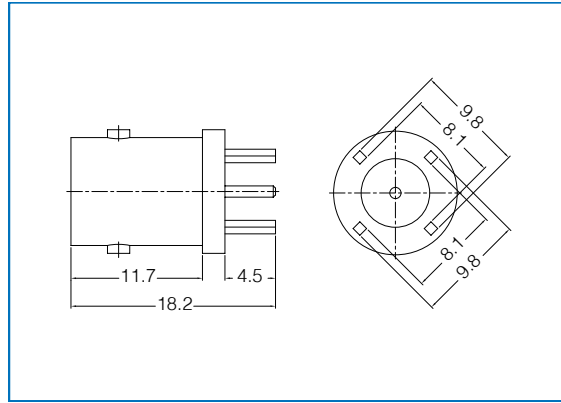
Straight Jack, PCB Mount

CYF11A-TPCN01

* Mounting hole : "C"

Impedance $\gamma = 5 = 50 \text{ Ohm}$

$\gamma = 7 = 75 \text{ Ohm}$



Right Angle Jack, PCB Mount

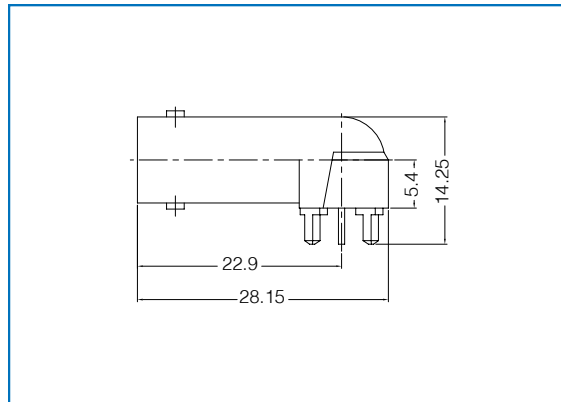
CYF21A-TPCN01

* Mounting hole : "R"

* Material : Die Cast

Impedance $\gamma = 5 = 50 \text{ Ohm}$

$\gamma = 7 = 75 \text{ Ohm}$



Bulkhead Right Angle Jack, PCB Mount

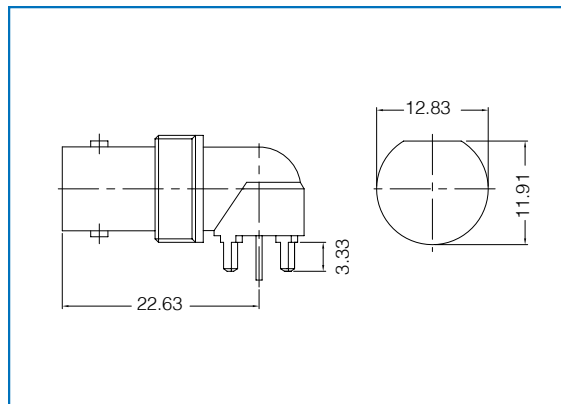
CYF22A-TPCN01

* Mounting hole : "R"

* Material : Die Cast

Impedance $\gamma = 5 = 50 \text{ Ohm}$

$\gamma = 7 = 75 \text{ Ohm}$



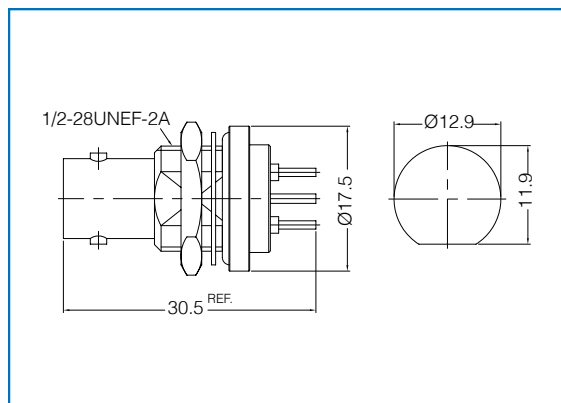
Bulkhead PCB Mount Receptacle Jack

CYF33A-TPCN01

* Mounting hole : "W"

Impedance $\gamma = 5 = 50 \text{ Ohm}$

$\gamma = 7 = 75 \text{ Ohm}$



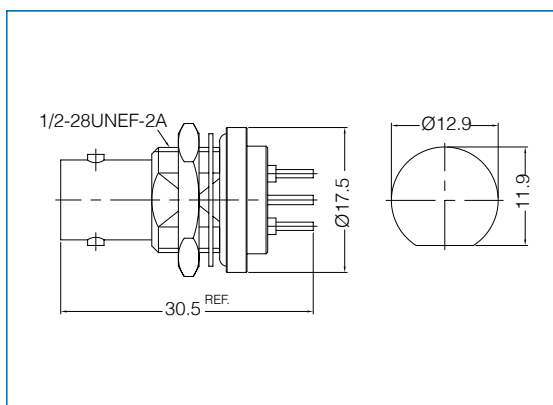
Bulkhead PCB Mount Receptacle Jack, IP67

CYF33B-TPCN01

* Mounting hole : "W"

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$

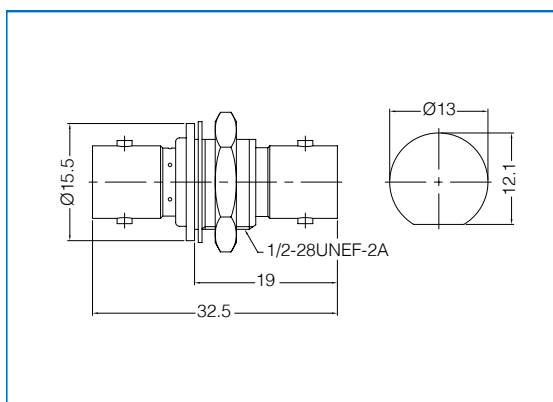


Bulkhead Isolated Adapter, Jack to Jack

CYF31A-ADPN01

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$

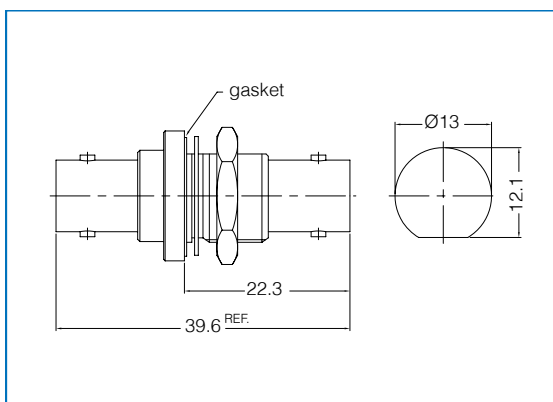


Bulkhead Adapter, Jack to Jack

CYF32A-ADPN01

Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$

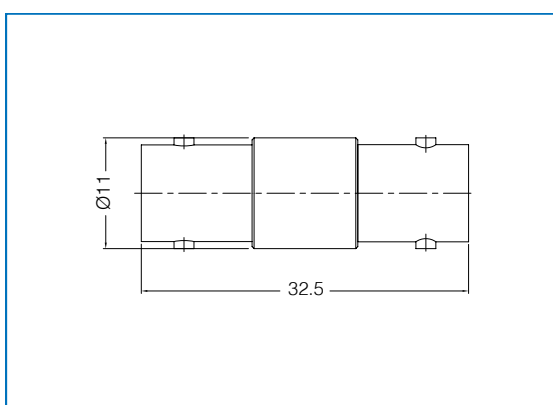


Adapter, Jack to Jack

CYF11A-ADPN01

Impedance $Y = 5 = 50 \text{ Ohm}$

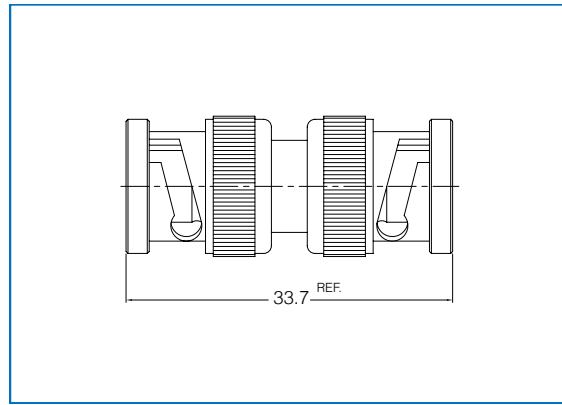
$Y = 7 = 75 \text{ Ohm}$



Adapter, Plug to Plug

CYM11A-ADPN01

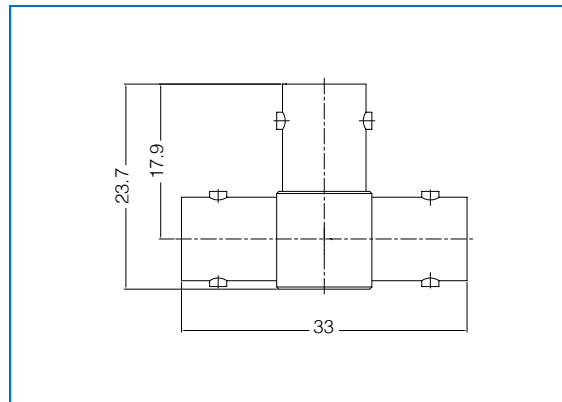
Impedance Y = 5 = 50 Ohm
 Y = 7 = 75 Ohm



“T” Adapter, Jack to Jack to Jack

CYF51A-ADPN01

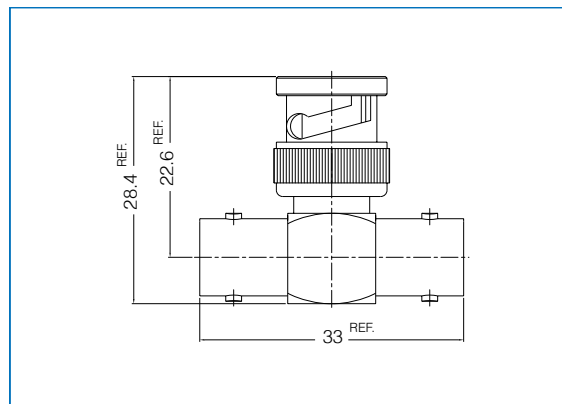
Impedance Y = 5 = 50 Ohm
 Y = 7 = 75 Ohm



“T” Adapter, Jack to Plug to Jack

CYA51A-ADPN01

Impedance Y = 5 = 50 Ohm
 Y = 7 = 75 Ohm

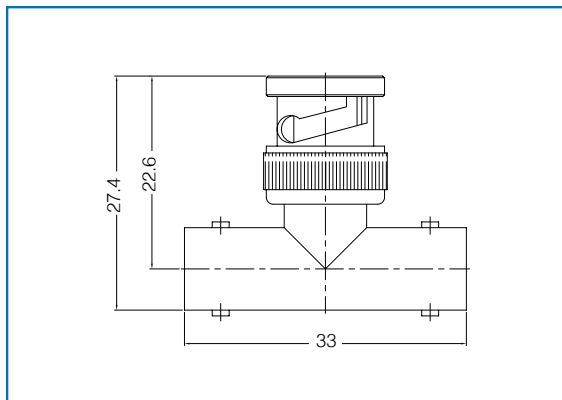


“T” Adapter, Jack to Plug to Jack

CYA52A-ADPN01

* Material : Die Cast

Impedance Y = 5 = 50 Ohm
 Y = 7 = 75 Ohm

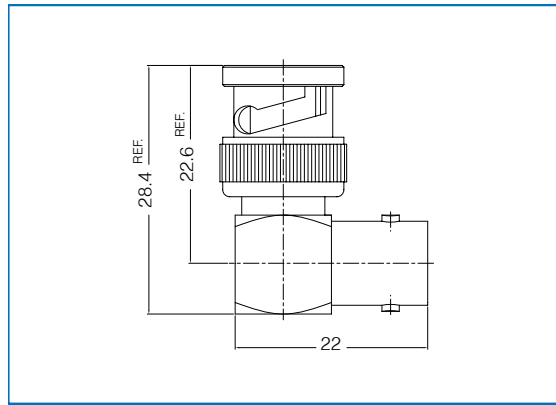


Right Angle Adapter, Plug to Jack

CYA21A-ADPN01

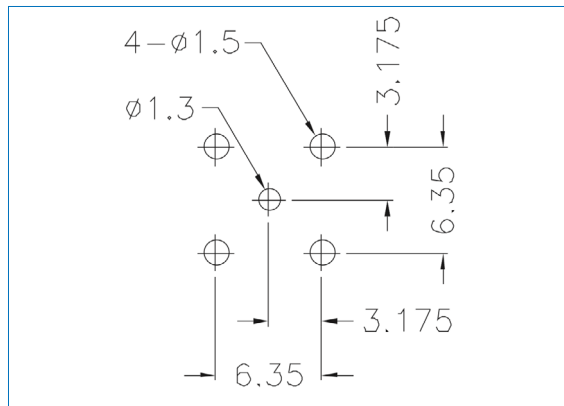
Impedance $Y = 5 = 50 \text{ Ohm}$

$Y = 7 = 75 \text{ Ohm}$

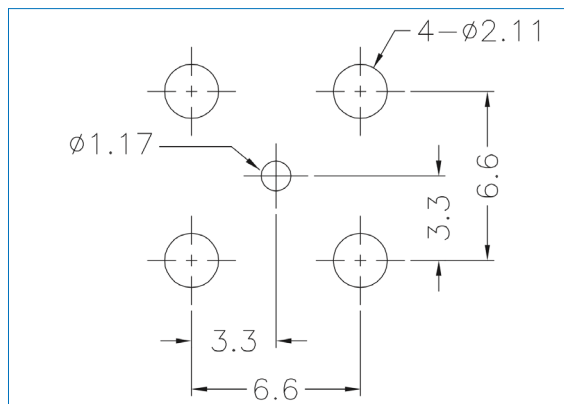


PCB Layouts

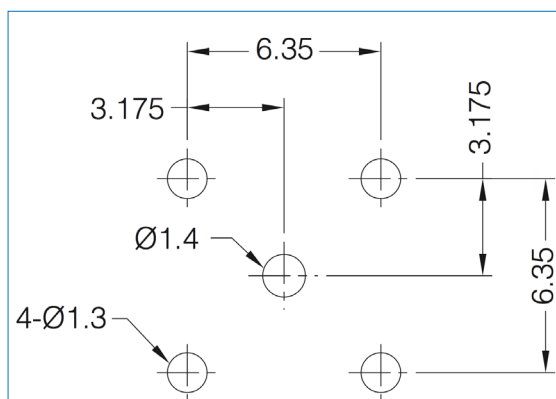
Layout-C



Layout-R



Layout-W

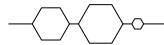




Application Chart of Crimping Dies

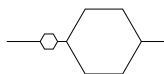


Die Set No. 1317



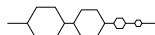
Hex Sizes : .213 / .255 / .068
Ferrule O.D. : 7.5mm / 6.5mm
Contact O.D. : 2.1mm
Cable Group : RG-58, 59, 62, 223, LMR-195, LMR-200, LMR-240
For : BNC, TNC, N, Mini-UHF

Die Set No. 1319



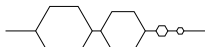
Hex Sizes : .10 / .429
Ferrule O.D. : 12.4mm
Contact O.D. : 3.0mm
Cable Group : RG-8, 11, 213, 214
For : N

Die Set No. 1346



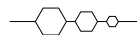
FHex Sizes : .213 / .178 / .068 / .042
ferrule O.D. : 6.5mm / 5.3mm
Contact O.D. : 2.1mm / 1.35mm
Cable Group : RG-58, 174, Belden-1855A, Belden-8218, AT&T 735A, BT-3002
For : BNC, True 75Ω BNC, TNC, N, SMA

Die Set No. 1347



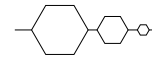
Hex Sizes : .324 / .255 / .068 / .042
Ferrule O.D. : 9.5mm / 7.5mm
Contact O.D. : 2.1mm / 1.35mm
Cable Group : RG-6, 59, Belden-8241, Belden-8281, AT&T 734A, LMR-240
For : BNC, True 75Ω BNC, TNC, N, SMA

Die Set No. 1351



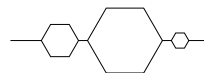
Hex Sizes : .178 / .128 / .068
Ferrule O.D. : 5.3mm / 3.9mm
Contact O.D. : 2.1mm
Cable Group : RG-174, 188, 196, 316, 179, LMR-100
For : BNC, TNC, SMA, SMB, SMC, MCX, MMCX

Die Set No. 1352



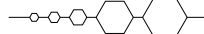
Hex Sizes : .324 / .178 / .068
Ferrule O.D. : 9.5mm / 5.3mm
Contact O.D. : 2.1mm
Cable Group : RG-174, 179, 316, LMR-100, Belden-8281, RG-6, LMR-300
For : BNC, TNC, N, SMA, SMB, SMC

Die Set No. 1353



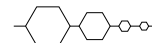
Hex Sizes : .213 / .429 / .10
Ferrule O.D. : 6.5mm / 12.4mm
Contact O.D. : 3.0mm
Cable Group : RG-58, 8, 223, LMR-195, LMR-200
For : N

Die Set No. 1355



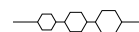
Hex Sizes : .052 / .068 / .10 / .213 / .255
Ferrule O.D. : 7.5mm / 6.5mm
Contact O.D. : 3.0mm / 2.1mm / 1.5mm
Cable Group : RG-58, 59, 62, 223, LMR-195
For : BNC, TNC, SMA, SMB, SMC, Mini-UHF, N

Die Set No. 1376



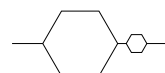
Hex Sizes : .255 / .178 / .068 / .052
Ferrule O.D. : 7.5mm / 5.3mm
Contact O.D. : 2.1mm / 1.5mm
Cable Group : RG-59, 62, 223, 174, 179, 316, LMR-100
For : BNC, TNC, N, SMA, SMB, SMC

Die Set No. 1377



Hex Sizes : .105 / .128 / .151
Ferrule O.D. : 4.4mm / 3.9mm
Contact O.D. : 3.0mm
Cable Group : RG-178, 316, 179, RD-179, RD-316, LMR-100
For : SMA, SMB, SMC, MCX, MMCX

Die Set No. 1380



Hex Sizes : .429 / .118
Ferrule O.D. : 12.4mm
Contact O.D. : 3.5mm
Cable Group : Belden-9913, LMR-400
For : BNC, TNC, N

Reflection → Conversion Table

VSWR	Rf	RL (dB)
1.010	0.005	46.06
1.020	0.0099	40.09
1.030	0.0148	36.61
1.040	0.0196	34.15
1.050	0.0244	32.26
1.060	0.0291	30.71
1.070	0.0338	29.42
1.080	0.0385	28.30
1.090	0.0431	27.32
1.100	0.0476	26.44
1.110	0.0521	25.66
1.120	0.0566	24.94
1.130	0.061	24.29
1.140	0.0654	23.69
1.150	0.0698	23.13
1.160	0.0741	22.61
1.170	0.0783	22.12
1.180	0.0826	21.66
1.190	0.0868	21.23
1.200	0.0909	20.83
1.210	0.095	20.44
1.220	0.0991	20.08
1.230	0.1031	19.73
1.240	0.1071	19.40
1.250	0.1111	19.08
1.260	0.115	18.78
1.270	0.1189	18.49
1.280	0.1228	18.22
1.290	0.1266	17.95
1.300	0.1304	17.69
1.310	0.1342	17.45
1.320	0.1379	17.21
1.330	0.1416	16.98
1.340	0.1453	16.75
1.350	0.1489	16.54
1.360	0.1525	16.33
1.370	0.1561	16.13
1.380	0.1597	15.94
1.390	0.1632	15.75

RL (dB)	Rf	VSWR
50.00	0.0032	1.006
49.00	0.0035	1.007
48.00	0.004	1.008
47.00	0.0045	1.009
46.00	0.005	1.010
45.00	0.0056	1.011
44.00	0.0063	1.013
43.00	0.0071	1.014
42.00	0.0079	1.016
41.00	0.0089	1.018
40.00	0.01	1.020
39.00	0.0112	1.023
38.00	0.0126	1.025
37.00	0.0141	1.029
36.00	0.0158	1.032
35.00	0.0178	1.036
34.00	0.02	1.041
33.00	0.0224	1.046
32.00	0.0251	1.052
31.00	0.0282	1.058
30.00	0.0316	1.065
29.00	0.0355	1.074
28.00	0.0398	1.083
27.00	0.0447	1.094
26.00	0.0501	1.106
25.00	0.0562	1.119
24.00	0.0631	1.135
23.00	0.0708	1.152
22.00	0.0794	1.173
21.00	0.0891	1.196
20.00	0.1	1.222
19.00	0.1122	1.253
18.00	0.1259	1.288
17.00	0.1413	1.329
16.00	0.1585	1.377
15.00	0.1778	1.433
14.00	0.1995	1.499
13.00	0.2239	1.577
12.00	0.2512	1.671

Rf	RL (dB)	VSWR
0.005	46.02	1.010
0.010	40.00	1.020
0.015	36.48	1.030
0.020	33.98	1.041
0.025	32.04	1.051
0.030	30.46	1.062
0.035	29.12	1.073
0.040	27.96	1.083
0.045	26.94	1.094
0.050	26.02	1.105
0.055	25.19	1.116
0.060	24.44	1.128
0.065	23.74	1.139
0.070	23.10	1.151
0.075	22.50	1.162
0.080	21.94	1.174
0.085	21.41	1.186
0.090	20.92	1.198
0.095	20.45	1.210
0.100	20.00	1.222
0.105	19.58	1.235
0.110	19.17	1.247
0.115	18.79	1.260
0.120	18.42	1.273
0.125	18.06	1.286
0.130	17.72	1.299
0.135	17.39	1.312
0.140	17.08	1.326
0.145	16.77	1.339
0.150	16.48	1.353
0.155	16.19	1.367
0.160	15.92	1.381
0.165	15.65	1.395
0.170	15.39	1.410
0.175	15.14	1.424
0.180	14.88	1.439
0.185	14.66	1.454
0.190	14.42	1.469
0.195	14.20	1.484

VSWR = Voltage Standing Wave Ratio Rf = Reflection Coefficient RL = Return Loss