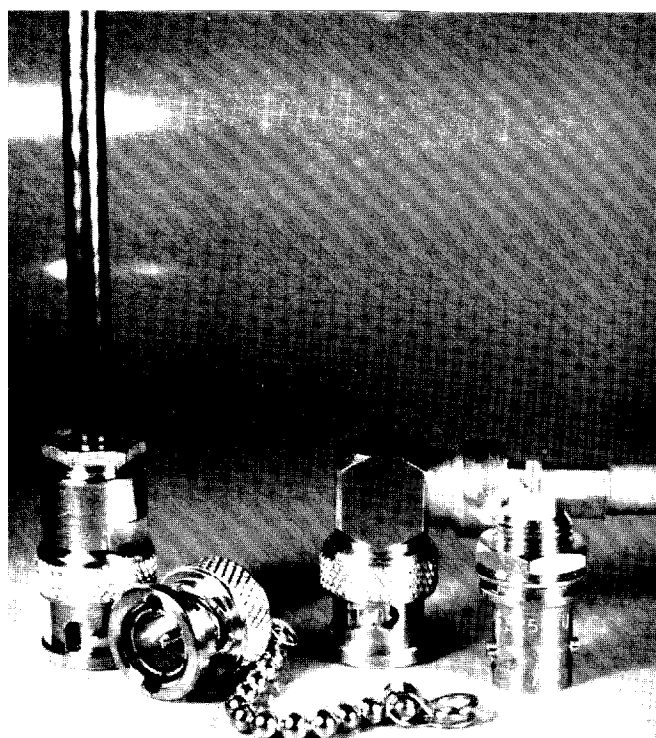




50 Ω	DC - 4 GHz recommended DC - 11 GHz maximum
75 Ω	DC - 1 GHz recommended DC - 1,5 GHz maximum

GENERAL

- Coaxial connectors standardised worldwide
- Bayonet coupling
- Cable clamp or crimp attachment
- Good RF performance
- Proven strength and reliability

APPLICABLE STANDARDS

- MIL-C-39012
- CEI 169-8
- CECC 22120
- NF-C-93564 KBN Series
- UTE-C-93564

APPROVALS

- CCQ
- QPL (MIL-C-39012 – MIL-A-55339)
- GAM Listed
- MUAHAG Listed



APPLICATIONS

- Military & Civil Radio Telecommunication Equipments
- Radio Telephone
- Computers
- Videocommunications
- General Electronics

is catalogue offers the different ranges of **RADIAL BNC** series.

50 Ω and **75 Ω** ranges for professional use cover a large number of civils and military applications. Moreover, excellent quality / price ratio is given by **COMMERCIAL BNC** range for video communication, data processing, portable radio system, automotive industry applications . . .

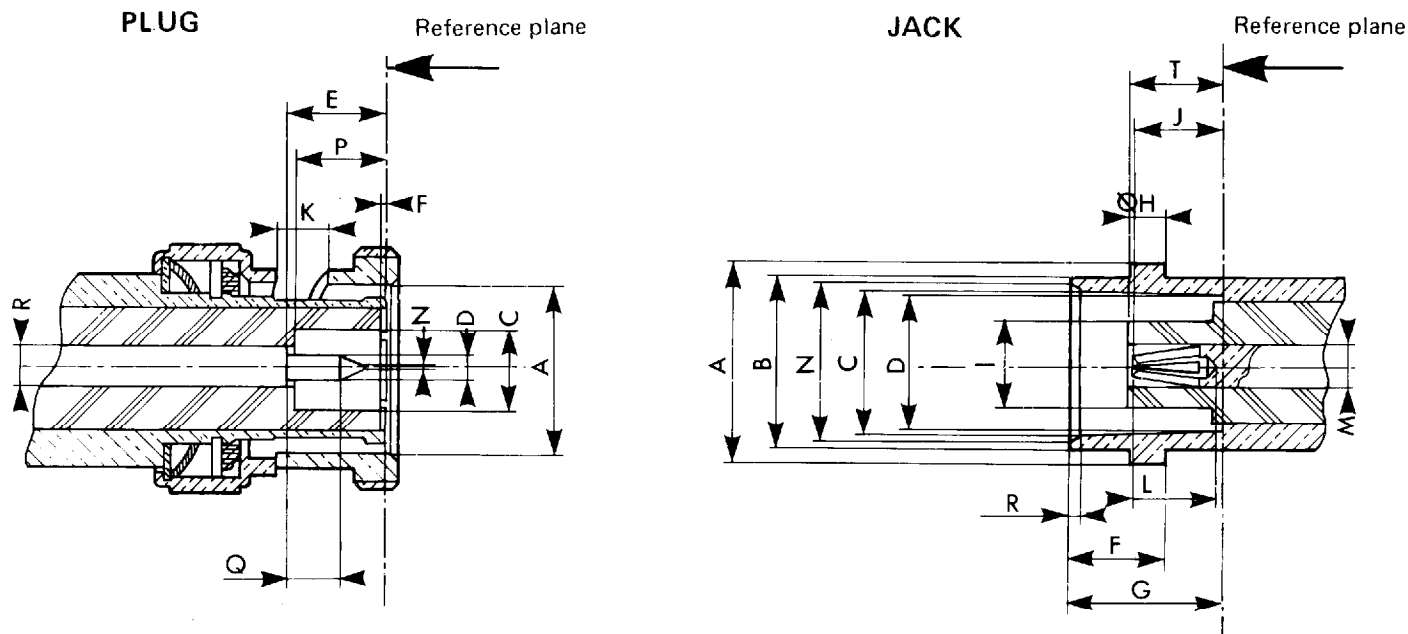
stly, **BNC QPL-MIL** range meets QPL qualified products for military using according to MIL-C-39012 and MIL-A-55339 specifications.

1 50 Ω connectors are intermateable with 75 Ω ones.

All dimensions are given in inches (mm)

CHARACTERISTICS

REQUIREMENT		MIL - C - 39012 C Paragraph	GENERAL SPECIFICATIONS	
ELECTRICAL				
Impedance			50Ω	75Ω
Operating Frequency			recommended 0 - 4 GHz	0 - 1 GHz
			maximum 0 - 11 GHz	0 - 1.5 GHz
V.S.W.R.	3 - 14		straight types : 1.30 max ; elbow types : 1.35 max	
Insertion loss	3 - 27		straight types : 0.2 dB max. at 3 GHz	
			elbow types : 0.3 dB max. at 3 GHz	
RF leakage	3 - 26		- 55 dB min. from 2 - 3 GHz	
Insulation Resistance	3 - 11		5000 MΩ min.	
Contact Resistance	3 - 16			
			Initial	After test
			Centre Contact (mΩ)	1.5
			Outer Conductor (mΩ)	0.2
Voltage rating (V R.M.S.)			Sea level : 500 V RMS max. ; at 21,000 m : 125 V RMS max.	
Dielectric withstanding voltage	3 - 17		Sea level : 1500 V RMS ; at 21,000 m : 375 V RMS	
RF High Potential withstanding voltage (frequency 5 MHz)	3 - 23		Sea level : 1000 V RMS	
MECHANICAL				
Connector durability	3 - 15		500 matings	
Engagement and separation force	3 - 5 - 1		axial : 13.6 N max. ; coupling : 28.6 N.cm	
Recommended Coupling Torque			Not applicable	
Coupling Proof Torque			Not applicable	
Coupling Nut Retention Force	3 - 25		44.5 daN	
Cable Retention Force	3 - 24		.197 (5)/50 cable : 227 N ; .236 (6)/75 cable : 340 N	
Contact Captivation			axial : 27 N	
ENVIRONMENTAL				
Operating Temperature			standard connectors	- 65°C + 165°C
			Hermetic connectors	- 65°C + 100°C
			connectors for semi-rigid cable	- 65°C + 105°C
Temperature cycling	3 - 20		MIL - STD - 202, method 107, condition B	
High Temperature Endurance			MIL - STD - 202, method 108	
Corrosion (Salt Spray)	3 - 13		MIL - STD - 202, method 101, condition B	
Vibration	3 - 18		MIL - STD - 202, method 204, condition B	
Shock	3 - 19		MIL - STD - 202, method 213, condition G	
Moisture resistance	3 - 21		MIL - STD - 202, method 106	
Low Pressure	3 - 22		not applicable	
Hermeticity			MIL - STD - 202, method 112, condition C	
			vacuum 10 ⁻⁶ Hg mm (Torr)	
			leakage rate < 10 ⁻⁶ atm/cm ³ /s	
Barometric pressure			pressure < 20 bars	
			pressure test : 3.5 bars ; duration : 2 mn ; temperature : 15°C to 2	
MATERIALS				
Bodies and Male Centre Contacts			Brass following QQ - B - 626	
Female Centre Contacts			Bronze or heat treated Beryllium following QQ - C - 530	
Ferrules			Brass	
Insulators			PTFE Teflon	
Gaskets			Silicon	
PLATING				
Bodies			Nickel to satisfy corrosion requirements	
Centre contacts			Gold	



BNC

PLUG				JACK			
mm		Inch		mm		Inch	
min.	max.	min.	max.	min.	max.	min.	max.
9.78	9.91	.385	.390	10.97	11.07	.432	.436
—	—	—	—	9.60	9.70	.378	.382
4.83	—	.190	—	8.31	8.46	.327	.333
1.32	1.37	.052	.054	8.10	8.15	.319	.321
5.33	5.84	.210	.230	—	—	—	—
0.15	—	.006	—	5.18	5.28	.204	.208
—	—	—	—	8.31	8.51	.327	.335
—	—	—	—	1.91	2.06	.075	.081
—	—	—	—	—	4.74	—	.186

Letter	PLUG				JACK			
	mm		Inch		mm		Inch	
	min.	max.	min.	max.	min.	max.	min.	max.
J	—	—	—	—	4.72	5.23	.186	.206
K	2.31	2.46	.091	.097	—	—	—	—
L	—	—	—	—	4.95	—	.195	—
M	—	—	—	—	2.06	2.21	.081	.087
ØN	—	0.61	—	.025	8.79	9.04	.346	.356
P	5.28	5.79	.208	.228	—	—	—	—
Q	1.98	—	.078	—	—	—	—	—
R	2.06	2.21	.081	.087	0.38	0.76	.015	.030
T	—	—	—	—	4.78	5.28	.188	.208

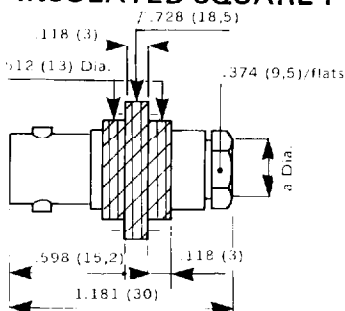
50 Ω

BNC

CABLE CLAMP FOR FLEXIBLE CABLES

CABLE DIA.	.197 (5)	.236 (6)
Ω	50	75 + 93
PART NUMBER	R 141 256	R 141 264
a dia. max.	.220 (5,6)	.256 (6,5)
Captive contact	NO	NO
Flange holes	4 holes .102 dia. (Ø2,6)	
Assembly	M 01	M 01

INSULATED SQUARE FLANGE JACK

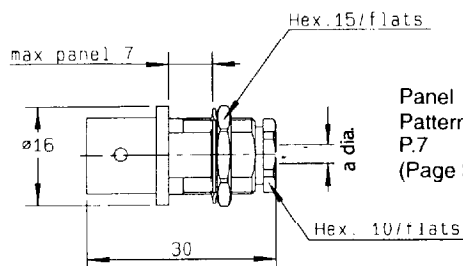


Panel
Pattern
P.4
(Page 31)



CABLE DIA.	.102 (2,6)
Ω	50 + 75
PART NUMBER	R 141 304
a dia. max.	.116 (2,95)
Captive contact	YES
Assembly	M 04

STRAIGHT BULKHEAD JACK

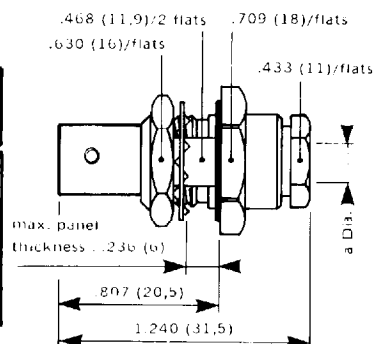


Panel
Pattern
P.7
(Page 31)



STRAIGHT BULKHEAD JACK WITH PANEL SEAL

CABLE DIA.	.079 (2)	.102 (2,6)
Ω	50	50 + 75
PART NUMBER	R 141 323	R 141 324
a dia. max.	.087 (2,2)	.116 (2,95)
Captive contact	YES	YES
Assembly	M 04	M 04

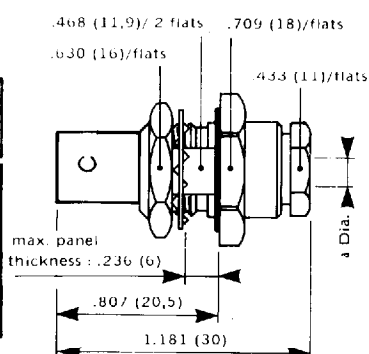


Panel
Pattern
P.7
(Page 31)

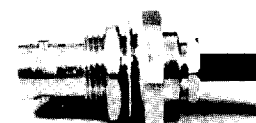


STRAIGHT BULKHEAD JACK WITH PANEL SEAL

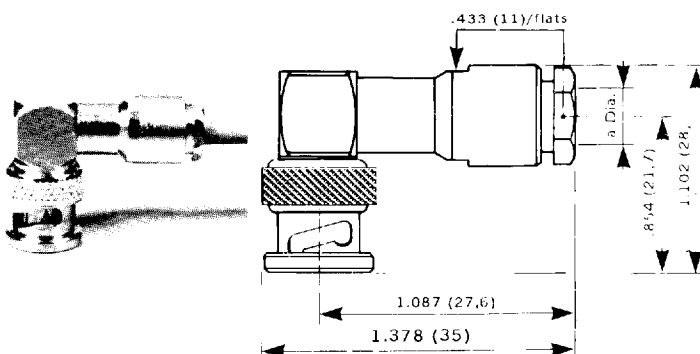
CABLE DIA.	.197 (5)	.236 (6)
Ω	50	75 + 93
PART NUMBER	R 141 327	R 141 329
a dia. max.	.220 (5,6)	.260 (6,6)
Captive contact	NO	NO
Assembly	M 02	M 02



Panel
Pattern
P.7
(Page 31)

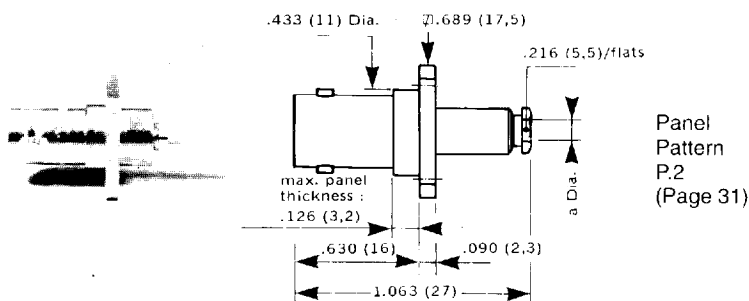


RIGHT ANGLE PLUG



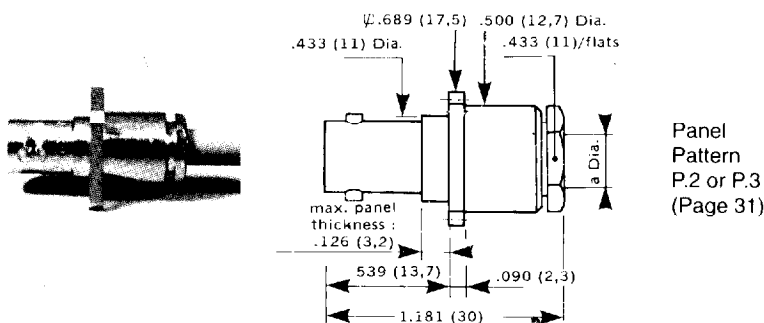
CABLE DIA.	.102 (2,6)	.236 (6)
Ω	75	75 + 93
PART NUMBER	R 142 154	R 142 157
a dia. max.	.118 (3)	.260 (6,6)
Captive contact	YES	YES
Assembly	M 04	M 02

SQUARE FLANGE JACK



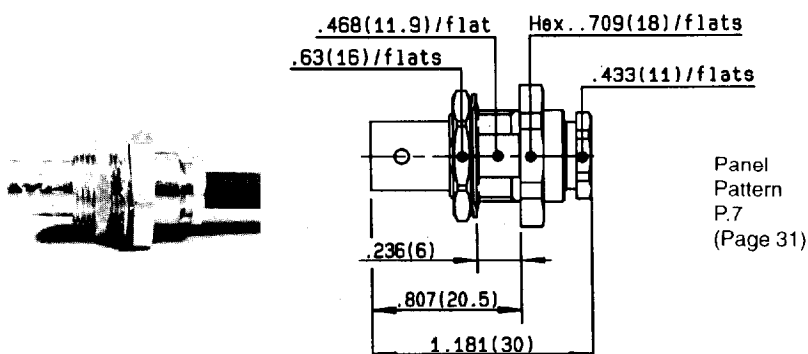
CABLE DIA.	.102 (2,6)
Ω	75
PART NUMBER	R 142 202
a dia. max.	.118 (3)
Captive contact	NO
Flange holes	4 holes N° 3.56 UNF.2B (M 2,5 x 0,45)
Assembly	M 10

SQUARE FLANGE JACK



CABLE DIA.	.236 (6)
Ω	75 + 93
PART NUMBER	R 142 268
Equival. MIL	UG. 262 D/U
a dia. max.	.256 (6,5)
Captive contact	NO
Flange holes	4 holes N° 3.56 UNF.2B (M 2,5 x 0,45)
Assembly	M 02

BULKHEAD JACK

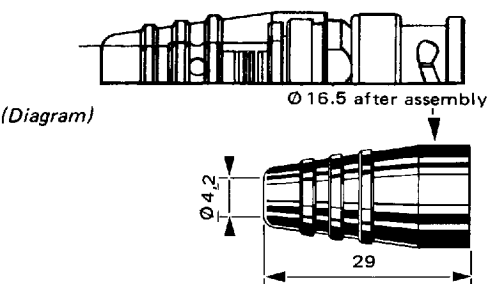


CABLE DIA.	.236 (6)
Ω	75 + 93
PART NUMBER	R 142 329
a dia. max.	.260 (6,6)
Captive contact	YES
Assembly	M 02

accessories

splashproof sleeves for crimp connectors

These sleeves can be used with BNC and TNC series connectors of the full crimp style which have a separate back nut assembly (see diagram).

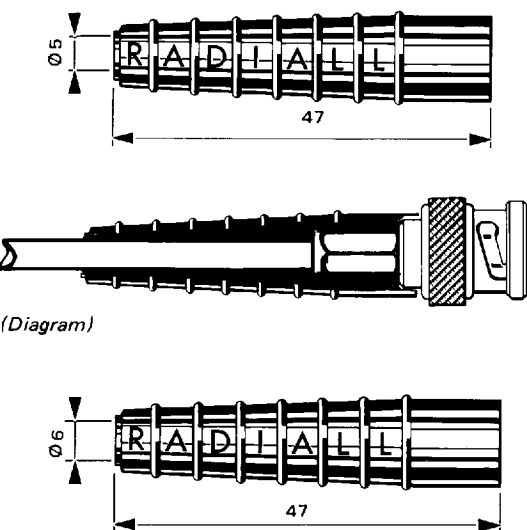


CODE No.	CABLE GROUP	COLOUR	MATERIAL	WEIGHT g.
R 280 555	5/50 + 6/75 Ω	Black	Neoprene Rubber	2,7

coloured taper sleeves for crimp connectors

These sleeves can be used with BNC, TNC and mQ series connectors and are fitted over the crimped ferrule (see diagram). A clean finish to the crimped assembly and colour coding in one operation.

IMPORTANT These sleeves are sold in units of 10. They can only be used with crimp connectors of the series mentioned above.



R 280 570	5/50 Ω	Black	PVC
R 280 571		Red	
R 280 572		Green	
R 280 573		Blue	
R 280 574		Yellow	
R 280 575		Grey	
R 280 576		White	
R 280 577		Brown	
R 280 578	6/75 Ω + 93	Orange	PVC
R 280 579		Violet	
R 280 580		Clear	
R 280 590		Black	
R 280 591		Red	
R 280 592		Green	
R 280 593		Blue	
R 280 594		Yellow	
R 280 595		Grey	
R 280 596		White	
R 280 597		Brown	
R 280 598		Orange	
R 280 599		Violet	
R 280 600		Clear	

COMMERCIAL BNC

Excellent QUALITY / price ratio, for video communication, data communication, instrumentation, telecommunication, portable radio systems, security systems, antenna systems, automotive industry application...
They are intermateable with all 50 and 75Ω BNC connectors.

ELECTRICAL CHARACTERISTICS

Impedance	50 Ω and 75 Ω
Operating frequency	DC to 1.5 GHz
V.S.W.R. (1.5 GHz)	
Straight models	Ø 2.6 1.21 Ø 5 1.14 Ø 6 1.05
Right angle models	Ø 5 & Ø 6 1.17
Testing voltage (V RMS)	1500
Operating voltage (V RMS)	500
Insulation resistance (MΩ)	5000
Contact resistance (MΩ)	10

ENVIRONMENTAL CHARACTERISTICS

Temperature range	-25°C / +70°C
-------------------	---------------

PLATING

Body	Nickel
Center contact	Gold

MATERIALS

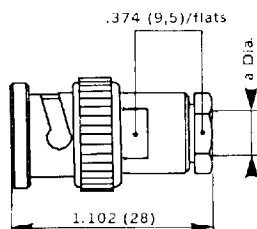
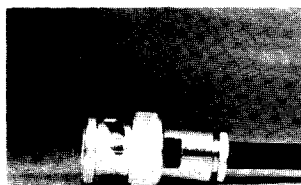
Coupling nut	Die cast zinc
--------------	---------------

Packaging : In boxes of 100 units (same part number). Also available in unit packaging : change the last digit from 1 to 2. Ex. : **R141 007 162**.

All dimensions are given in mm.

CABLE CLAMP FOR FLEXIBLE CABLES

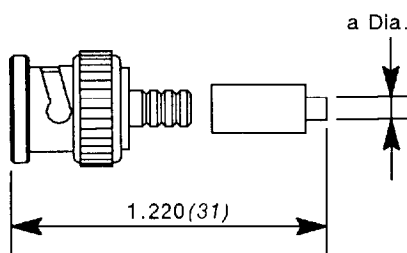
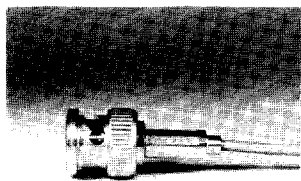
STRAIGHT PLUG



CABLE DIA. Ω	.197 (5) 50	.236 (6) 75 + 93
PART NUMBER	R 141 007 161	R 142 016 161
a dia. max.	.220 (5,6)	.260 (6,6)
Impedance	50 Ω	75 Ω
Captive contact	NO	YES
Assembly	M 01	M 01

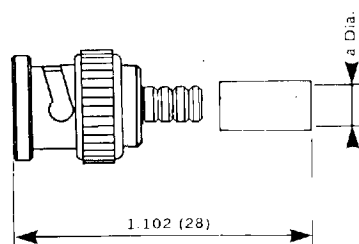
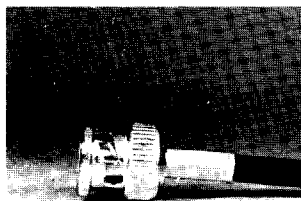
CRIMP PLUGS FOR FLEXIBLE CABLES

STRAIGHT PLUG



CABLE DIA. Ω	.102 (2,6) 50	.102 (2,6) 75
PART NUMBER	R 141 075 161	R 142 076 161
a dia. max.	.134 (3,4)	.134 (3,4)
Impedance	50 Ω	75 Ω
Captive contact	YES	YES
Assembly	M05	M05

STRAIGHT PLUG



CABLE DIA. Ω	.197 (5) 50	.236 (6) 75 + 93
PART NUMBER	R 141 082 161*	R 142 085 161
a dia. max.	.216 (5,5)	.260 (6,6)
Impedance	50 Ω	75 Ω
Captive contact	YES	YES
Assembly	M 03	M 03

* available also in right angle version : **R 141 182 161**