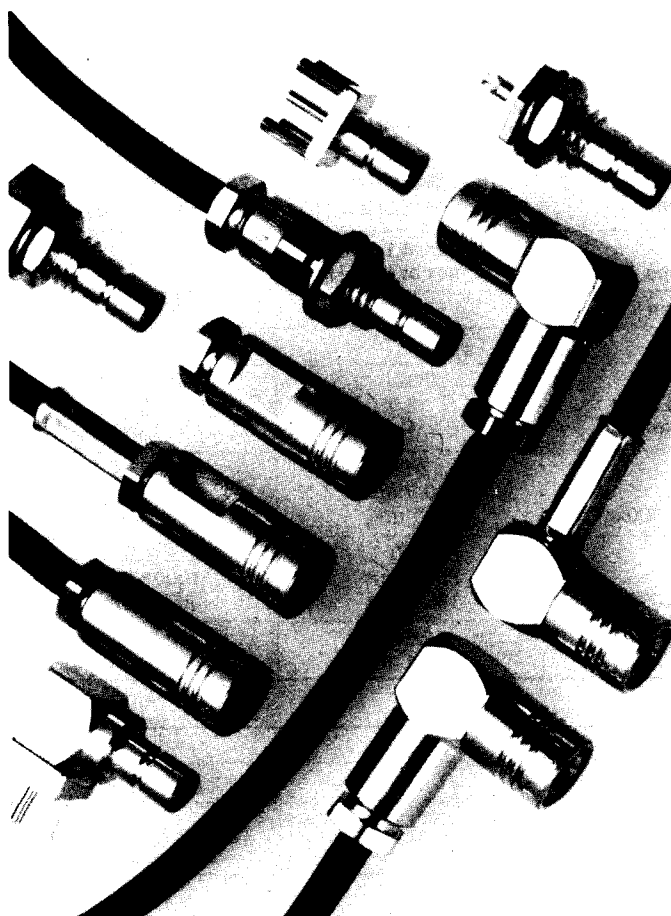




50 Ω

DC – 4 GHz

GENERAL

V

- Subminiature coaxial connectors
- Snap-on coupling
- Plugs have female contacts
- Jacks have male contacts
- Low weight and reduced outline dimensions
- Captive contact (except contrary specification)

APPLICABLE STANDARDS

- SMB series MIL-C-39012
MIL-C-39012/67-72
- IEC 169-10
- CECC 22130
- BS 9210 N0007

QUALIFICATIONS / APPROVALS

- MIL-C-39012 QPL
- CECC
- NF-CCQ
- STTE/A homologation
- LNZ list



SMB SERIES

General	Page 3
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Interface	5
Plugs, Jacks	6 - 9
Panel receptacles	10 - 11
PCB receptacles	11 - 12
In series adapters, Cap	13

SMB-A SERIES

Receptacles	14
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Subglis SERIES

Receptacles	15
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Panel patterns	24
Standard cables and relevant connectors	24
Dimensions of applicable cables	25
Index of cross references QPL - NF - MIL	26
Between series adapters P/N - Index of RADIAL P/N	27

APPLICATIONS

- Mobile communication systems
- Civil and military telecommunications
- Aeronautics
- Video
- IF systems

CHARACTERISTICS

TEST/CHARACTERISTICS	MIL-C-39012 A	VALUES/REMARKS
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ELECTRICAL CHARACTERISTICS

Impedance		50 Ω		
Frequency range		DC–4 GHz		
V.S.W.R.	3–14	Cable group Straight type Right angle type	2/50 1.30 + 0.04 F(GHz) 1.45 + 0.06 F(GHz)	2.6/50 1.25 + 0.04 F(GHz) 1.35 + 0.06 F(GHz)
Insertion loss	3–27	Straight type Right angle type	0.3 dB max at 1.5 GHz 0.6 dB max at 1.5 GHz	
RF leakage	3–26	-55 dB min from 2 to 3 GHz		
Insulation resistance	3–11	1000 MΩ min		
Contact resistance	3–16	center contact (mΩ) outer contact (mΩ)	Initial 6 1	After proof 8 1.5
Working voltage		Cable group at sea level : at 70000 ft (21000 m) :	2/50 250 V rms 60 V rms	2.6/50 335 V rms 85 V rms
Dielectric withstanding voltage	3–17	Cable group at sea level : at 70000 ft (21000 m) :	2/50 750 V rms 185 V rms	2.6/50 1000 V rms 250 V rms
RF withstanding voltage (5 MHz sine wave)	3–23	Cable group at sea level :	2/50 500 V rms	2.6/50 700 V rms

MECHANICAL CHARACTERISTICS

Durability	3–15	500 matings
Mating / unmating	3–5–1	axial force : 14 Lbf (62 N max)
Cabling retention force	3–24	cable 2/50 : 13 Lbf (58 N) – cable 2.6/50 : 25 Lbf (110 N)
Center contact retention		Axial : 2.25 Lbf (10 N)

ENVIRONMENTAL CHARACTERISTICS

Temperature range		standard models hermetic sealed models models for semi-rigid cables	-65°C / + 165°C -65°C / +165°C -65°C / +105°C
Combined climate tests		MIL-STD-202, method 102, condition C	
Thermal shock	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, 5%	
Vibrations	3–18	MIL-STD-202, method 204, condition B, 15g	
Shocks	3–19	MIL-STD-202, method 213, condition B, 75g	
Low pressure	3–22	MIL-STD-202, method 105, condition C	
Hermetic seal		applied vacuum 10 ⁻⁶ mm of Hg (Torrs) leakage rate < 10 ⁻⁶ atm/cm ³ /s	

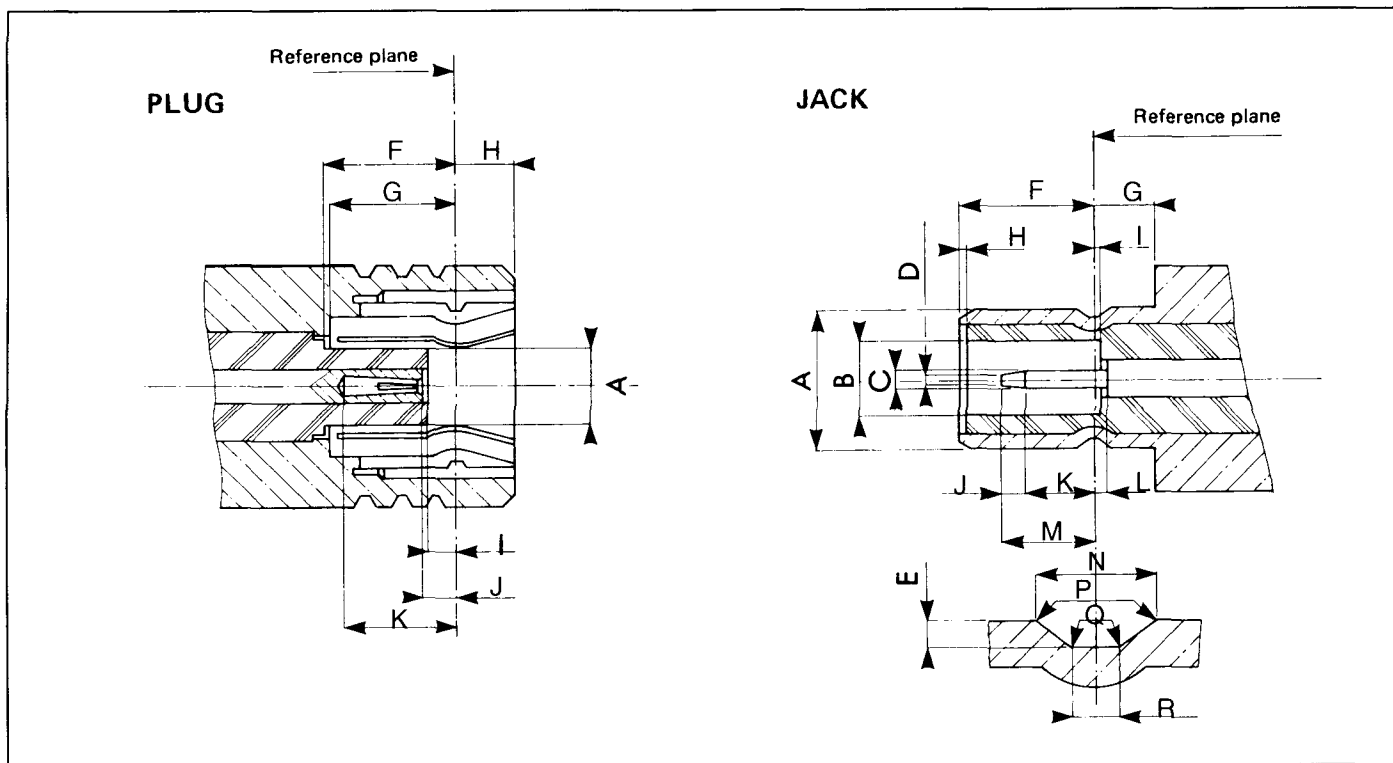
MATERIALS

Body and center pin contact		brass half hard as per QQ-B-626
Center socket contact		beryllium copper as per QQ-C-530
Ferrules		brass
Insulators		PTFE teflon
Gaskets		silicone elastomer

PLATING

Body		gold or nickel
Center contacts		gold

All dimensions are given in inches (millimeters)



Letter	PLUG				JACK			
	mm		inch		mm		inch	
	min.	max.	min.	max.	min.	max.	min.	max.
Dia. A	-	2.06	-	.081	-	3.71	-	.146
Dia. B	-	-	-	-	2.08	-	.082	-
Dia. C	-	-	-	-	0.48	0.53	.019	.021
Dia. D	-	-	-	-	-	0.25	-	.010
E	-	-	-	-	0.15	0.25	.006	.010
F	3.58	-	.141	-	3.33	3.58	.131	.141
G	3.58	-	.141	-	1.65	-	.065	-
H	-	1.63	-	.064	0	-	.000	-
I	0.18	-	.007	-	-	0.18	-	.007

Letter	PLUG				JACK			
	mm		inch		mm		inch	
	min.	max.	min.	max.	min.	max.	min.	max.
J	0.18	0.94	.007	.037	0.25	-	.010	-
K	2.97	-	.117	-	1.32	-	.052	-
L	-	-	-	-	-	0.18	-	.007
M	-	-	-	-	-	2.97	-	.117
N	-	-	-	-	0.69	0.94	.027	.037
P	-	-	-	-	0.05	0.15	.002	.006
Q	-	-	-	-	-	0.13	-	.005
R	-	-	-	-	0.28	0.38	.011	.015

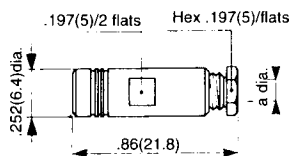
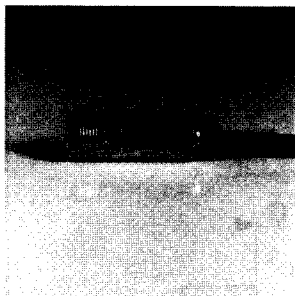
CLAMP TYPE CONNECTORS :

R 114 xxx 000 = braid retention with cylindrical gasket

R 114 xxx 133 = braid retention with V groove gasket

CABLE CLAMP TYPE FOR FLEXIBLE CABLE

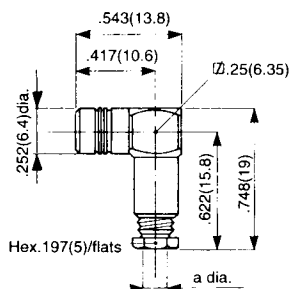
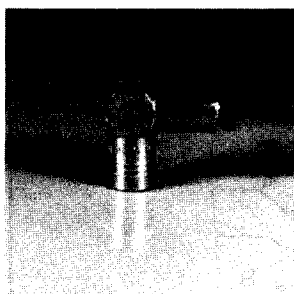
STRAIGHT PLUGS



CABLE GROUP	.078 (2) / 50	.102 (2.6) / 50 + 75 S	.150 (3.8) / 95
Part Number (cyl. gasket)	R 114 003 000	R 114 005 000	R 114 009 000
a dia.	.087 (2.2)	.118 (3)	.157 (4)
Assembly	M01 page 16		
Part Number (V groove gasket)	*R 114 003 133	*R 114 005 133	

* For dimensions and assembly instructions ask for the technical data sheet.

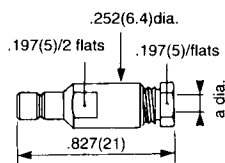
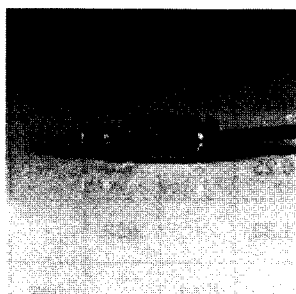
RIGHT ANGLE PLUGS



CABLE GROUP	.078 (2) / 50	.102 (2.6) / 50 + 75 S
Part Number (cyl. gasket)	R 114 163 000	R 114 165 000
a dia.	.087 (2.2)	.118 (3)
Assembly	M02 page 17	
Part Number (V groove gasket)	*R 114 163 133	*R 114 165 133

* For dimensions and assembly instructions ask for the technical data sheet.

STRAIGHT JACKS

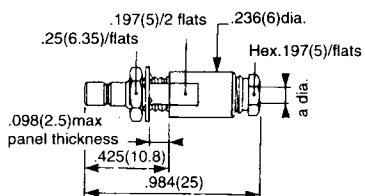
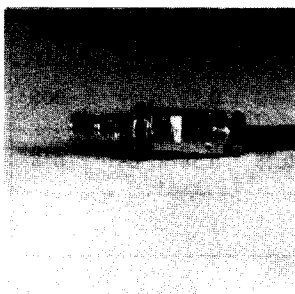


CABLE GROUP	.078 (2) / 50	.102 (2.6) / 50 + 75 S
Part Number (cyl. gasket)	R 114 203 000	R 114 205 000
a dia.	.087 (2.2)	.118 (3)
Assembly	M01 page 16	
Part Number (V groove gasket)	*R 114 203 133•	*R 114 205 133

• Manufactured upon request.

* For dimensions and assembly instructions ask for the technical data sheet.

BULKHEAD STRAIGHT JACKS



CABLE GROUP	.078 (2) / 50	.102 (2.6) / 50 + 75 S
Part Number (cyl. gasket)	R 114 303 000	R 114 305 000
a dia.	.087 (2.2)	.118 (3)
Assembly	M01 page 16	
Part Number (V groove gasket)	*R 114 303 133	*R 114 305 133
Panel pattern	P01 page 24	

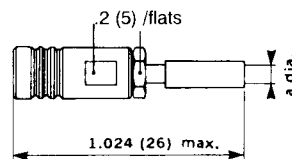
* For dimensions and assembly instructions ask for the technical data sheet.

Standard plating : gold – Available upon request with nickel plating : Please consult us.

CRIMP TYPE FOR FLEXIBLE CABLE

STRAIGHT PLUGS

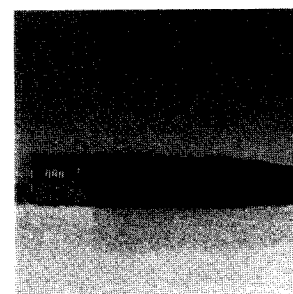
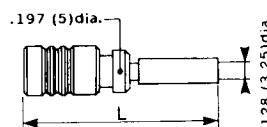
CABLE GROUP	.078 (2) / 50	.102 (2.6) / 50 + 75 S	.102 (2.6) / 50 D
Part Number (5mm/flats)	R 114 073 000	R 114 075 000	
Part Number (5.5mm/flats)	*R 114 073 134	*R 114 075 134	R 114 075 120
Part Number (reverse crimping)		*R 114 015 000	
a dia.	.098 (2.5)	.126 (3.2)	.138 (3.5)
Assembly	M05 page 20		



*For dimensions and assembly instructions ask for the technical data sheet.

STRAIGHT PLUGS - Full crimp type

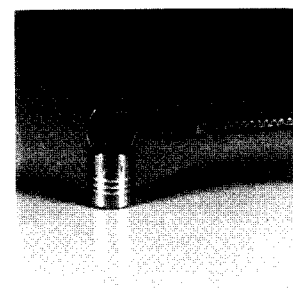
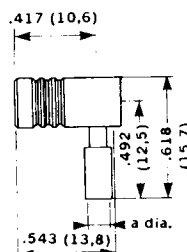
CABLE GROUP	.102 (2.6) / 50 + 75 S	.102 (2.6) / 50 D
Part Number	R 114 082 000	R 114 083 000
L	.803 (20.4)	.740 (18.8)
Assembly	M07 page 22	



Photographed with the sleeve R 280 560 000, see page 27.

RIGHT ANGLE PLUGS

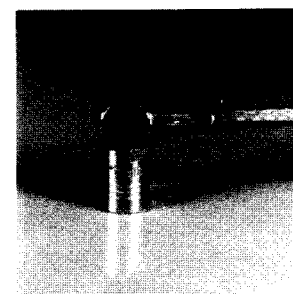
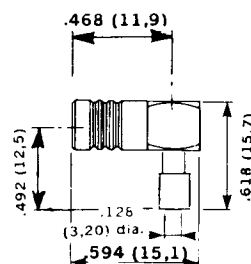
CABLE GROUP	.078 (2) / 50 S	.102 (2.6) / 50 + 75 S	.102 (2.6) / 50 D
Part Number (Gold plating)	R 114 183 000	R 114 186 000	R 114 182 000
Part Number (1/2 body: zamak plating: nickel)	*R 114 183 420	*R 114 186 720	
a dia.	.098 (2.5)	.126 (3.2)	
Assembly	M06 page 21		



*For dimensions and assembly instructions ask for the technical data sheet.

RIGHT ANGLE PLUGS

CABLE GROUP	.102 (2.6) / 50 + 75 S	BT 3002
Part Number	R 114 187 000 (full crimp)	*R 114 188 000 *R 114 191 300
Assembly	M08 page 23	

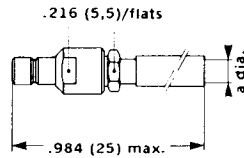


*For dimensions and assembly instructions ask for the technical data sheet.

Standard plating : gold – Available upon request with nickel plating : Please consult us.

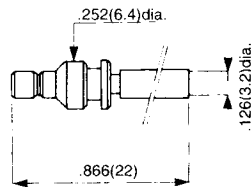
CRIMP TYPE FOR FLEXIBLE CABLE

STRAIGHT JACKS



CABLE GROUP	.078 (2) / 50	.102 (2.6) / 50 + 75 S
Part Number	R 114 237 000	R 114 239 000
a dia.	.098 (2.5)	.126 (3.2)
Assembly	M05 page 20	

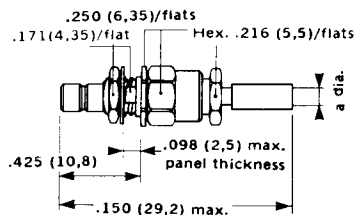
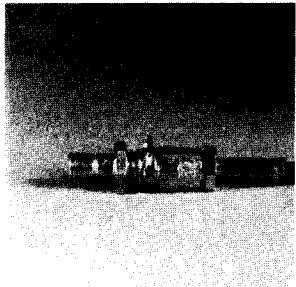
STRAIGHT JACK



CABLE GROUP	.102 (2.6) / 50 + 75 S
Part Number	R 114 238 000
Assembly	M07 page 22

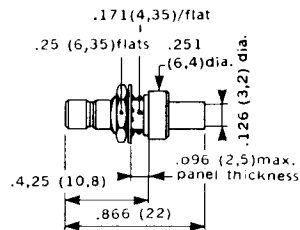
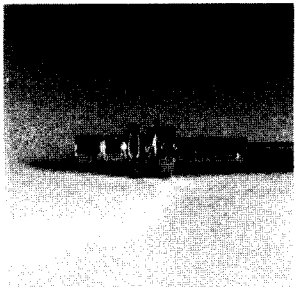
Photographed with the sleeve **R 280 560 000**, see page 27.

BULKHEAD STRAIGHT JACKS



CABLE GROUP	.078 (2) / 50	.102 (2.6) / 50 + 75 S
Part Number	R 114 311 000	R 114 312 000
a dia.	.098 (2.5)	.126 (3.2)
Assembly	M05 page 20	
Panel pattern	P01 page 24	

BULKHEAD STRAIGHT JACK



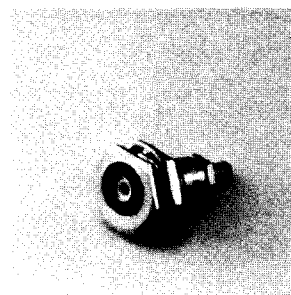
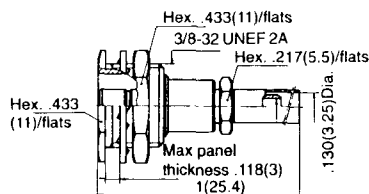
CABLE GROUP	.102 (2.6) / 50 + 75 S
Part Number	R 114 313 000
Assembly	M07 page 22
Panel pattern	P01 page 24

Standard plating : gold — Available upon request with nickel plating : Please consult us.

CRIMP TYPE FOR FLEXIBLE CABLE

RECESSED BULKHEAD JACK

CABLE GROUP	.102 (2.6) / 50 + 75
Part Number	R 114 316 000
Panel pattern	P03 page 24

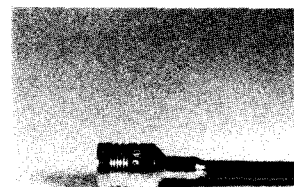
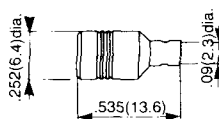


V

SOLDER TYPE FOR SEMI-RIGID CABLE

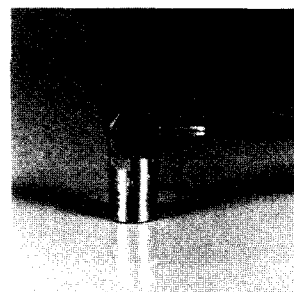
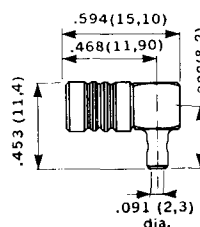
STRAIGHT PLUG

CABLE GROUP	.085"
Part Number	R 114 053 000
Assembly	M03 page 18



RIGHT ANGLE PLUG

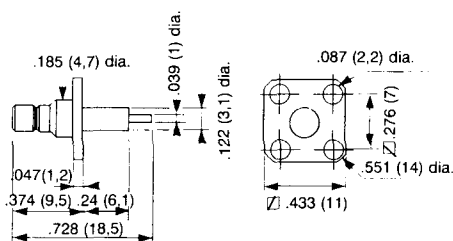
CABLE GROUP	.085"
Part Number	R 114 169 000
Assembly	M04 page 19



Standard plating : gold – Available upon request with nickel plating : Please consult us.

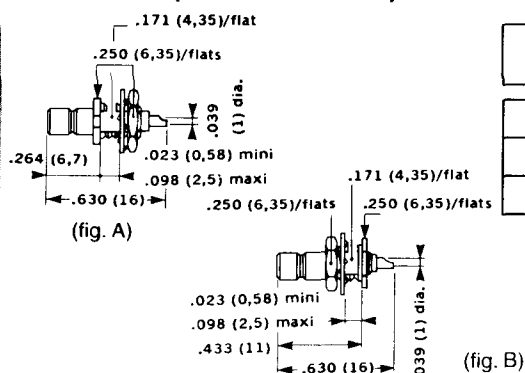
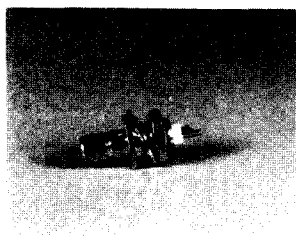
PANEL MOUNT RECEPTACLES

SQUARE FLANGE STRAIGHT JACK (STRAIGHT TERMINAL)



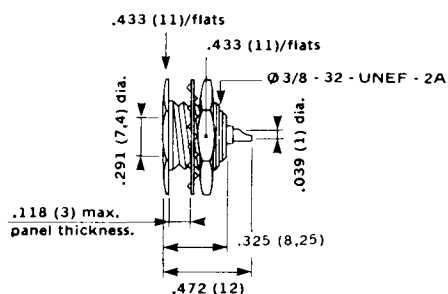
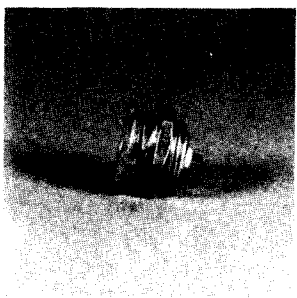
Part Number	R 114 413 000
Captive contact	NO

BULKHEAD STRAIGHT JACK (SOLDER POT)



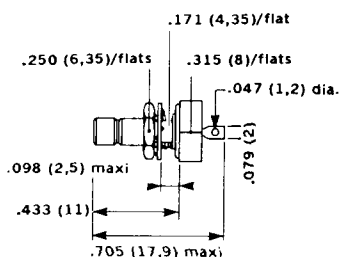
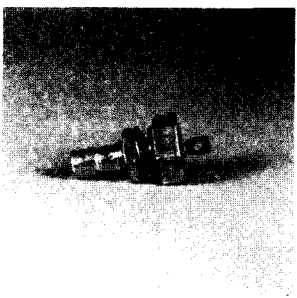
Part Number	R 114 553 000	R 114 554 000
Figure	A	B
Mounting	FRONT	REAR
Panel pattern	P01 page 24	

RECESSED BULKHEAD STRAIGHT JACK (SOLDER POT)



Part Number	R 114 566 000
Panel pattern	P03 page 24

BULKHEAD HERMETICALLY SEALED STRAIGHT PLUG - Rear mount



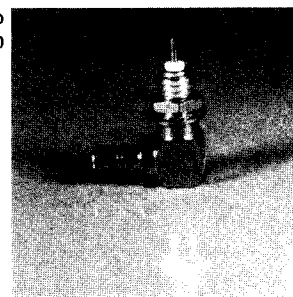
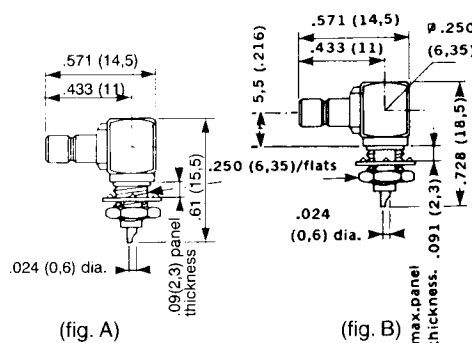
Part Number	R 114 603 000
Panel pattern	P01 page 24

Standard plating : gold - Available upon request with nickel plating : Please consult us.

PANEL MOUNT RECEPTACLES

BULKHEAD RIGHT ANGLE JACK (SOLDER POT)

Part Number	R 114 670 000	R 114 671 000
Figure	A	B
Panel pattern	P01 page 24	

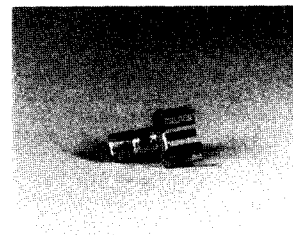
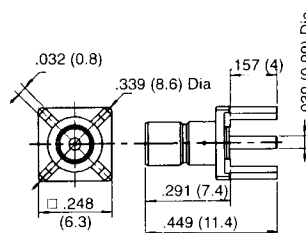


V

PCB MOUNT RECEPTACLES

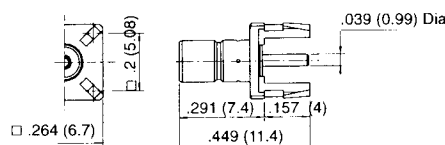
STRAIGHT PLUGS, SOLDER PINS

Part Number	R 114 426 000	R 114 426 020	R 114 426 030	R 114 426 042
Plating	Gold	Nickel	Nickel (<i>selective SnPb plating on the pins</i>)	Nickel
Pin length	.157 (4)			.114 (2.9)
Packaging	Unit	100		
Panel pattern	P04 page 24			

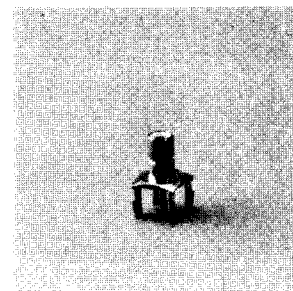


STRAIGHT PLUG, SOLDER PROFILED PINS

Part Number	R 114 426 530
Panel pattern	P05 page 24

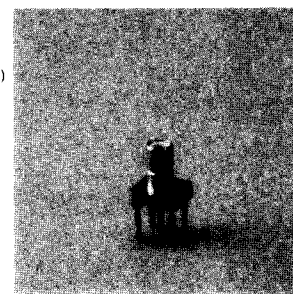
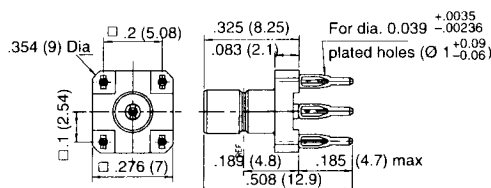


The profile of the pins ensures that no movement occurs during the soldering operation.



STRAIGHT PLUG, PRESS-FIT COMPLIANT PINS

Part Number	R 114 416 020
Plating	Nickel
Panel pattern	P06 page 24

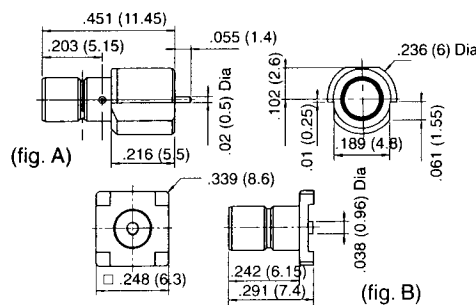
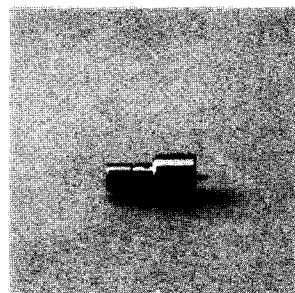


For detailed mounting procedure, please consult our catalog: PRESS-FIT COAXIAL CONNECTORS.

Standard plating: gold — Available upon request with nickel plating: Please consult us.

PCB MOUNT RECEPTACLES

STRAIGHT PLUGS, SURFACE MOUNT, (SMT)

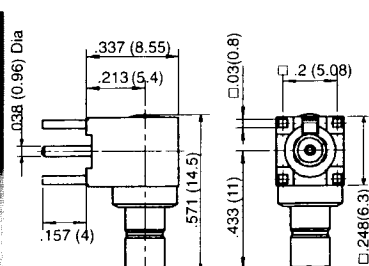
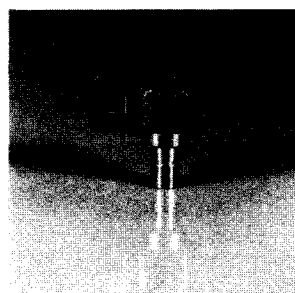


Part Number	R 114 423 000	*R 114 424 000
Figure	A	B
Application	"Edge card"	"on card"
Packaging	unit	
Packaging in reel of <i>100 receptacles</i> <i>500 receptacles</i>		R 114 424 100 R 114 424 120

**For dimensions and assembly instructions ask for the technical data sheet.*

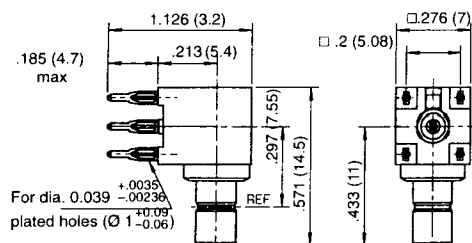
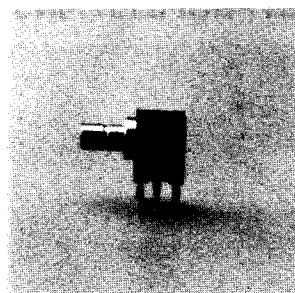
For reel packaging and detailed mounting procedure, please consult our catalog: **SMT COAXIAL CONNECTORS**.

RIGHT ANGLE PLUG, SOLDER PINS



Part Number	R 114665 000	R 114665 020	R 114665 104	R 114665 110
Plating	Gold	Nickel		
Pin length	4 mm		3 mm selected plating SnPb	3 mm
Packaging	unit	100	unit	100
Panel pattern	P04 page 24			

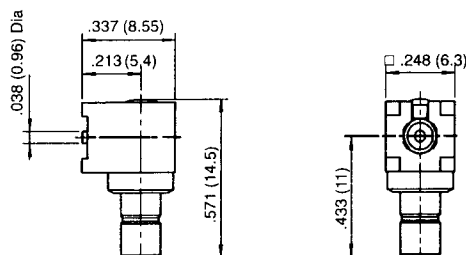
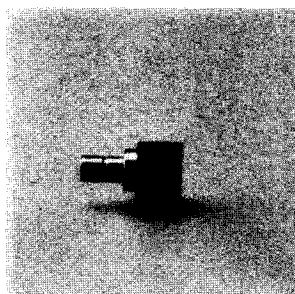
RIGHT ANGLE PLUG, PRESS-FIT PINS



Part Number	R 114 661 020
Plating	Nickel
Packaging	unit
Panel pattern	P06 page 24

For detailed mounting procedure, please consult our catalog : PRESS-FIT COAXIAL CONNECTORS.

RIGHT ANGLE PLUG, SURFACE MOUNT, (SMT)

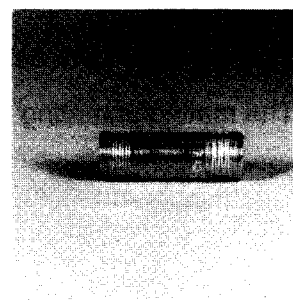
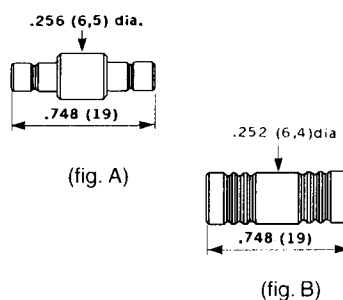


Part Number	R 114 664 000
Plating	Gold
Packaging	unit

For detailed mounting procedure, please consult our catalog : SMT COAXIAL CONNECTORS.

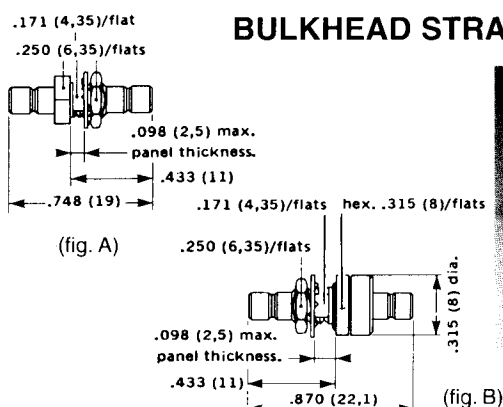
STRAIGHT

Part Number	R 114 703 000	R 114 704 000
Figure	A	B

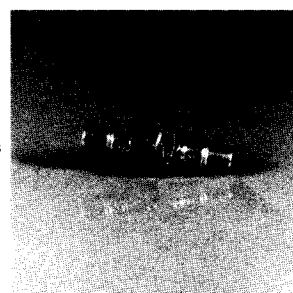


V

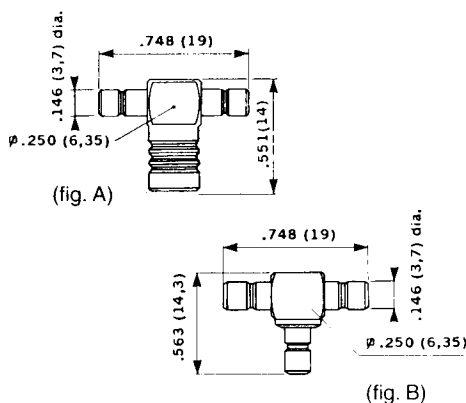
Part Number	R 114 720 000	R 114 753 000
Figure	A	B
Panel pattern	P01 page 24	
Note		hermetical



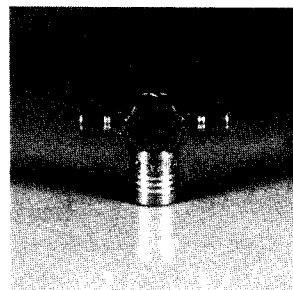
BULKHEAD STRAIGHT MALE/MALE



Part Number	R 114 780 000	R 114 781 000
Figure	A	B



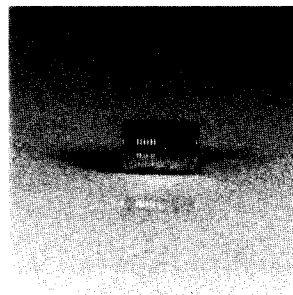
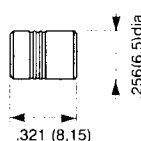
TEES



CAPS

FEMALE SHORT-CIRCUIT

Part Number	R 114 880 000
-------------	---------------



Standard plating : gold — Available upon request with nickel plating : Please consult us.

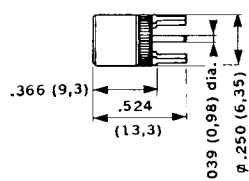
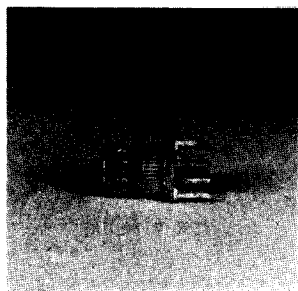
SMB – A

BULKHEAD AND PCB MOUNT RECEPTACLES

These receptacles, which mate with all the SMB jacks and receptacles, have a lower mating/unmating force than the SMB connectors, thereby avoiding any possible damage to PCB.

The mating/unmating force is from 0.56 Lbf (2.5 N) to 1.35 Lbf (6 N).

PCB STRAIGHT FEMALE



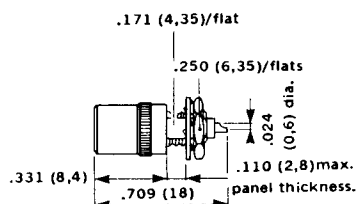
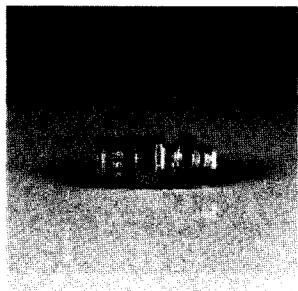
Part Number

R 115 427 000

Panel pattern

P04 page 24

BULKHEAD STRAIGHT FEMALE



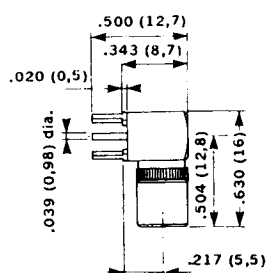
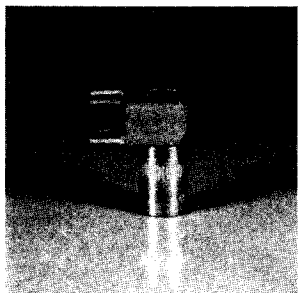
Part Number

R 115 556 000

Panel pattern

P01 page 24

PCB RIGHT ANGLE FEMALE



Part Number

R 115 666 000

Panel pattern

P04 page 24

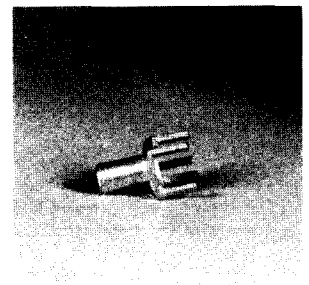
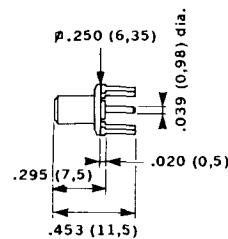
These snap-on receptacles have no latching mechanism other than contact pressure.

The mating/unmating force is from 0.50 Lbf (2.2 N) to 1.10 Lbf (4.9 N) and make these connectors specially suited for rack and panel systems.

V

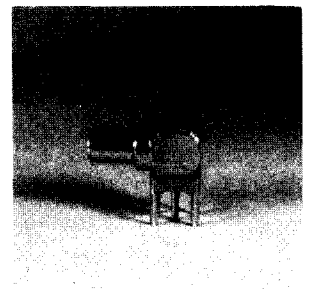
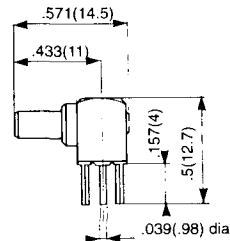
PCB STRAIGHT MALE

Part Number	R 116 426 000●
Panel pattern	P07 page 24



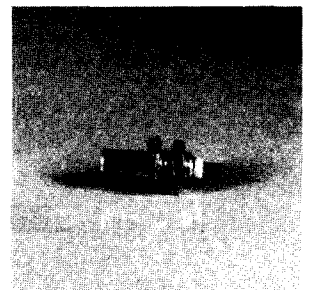
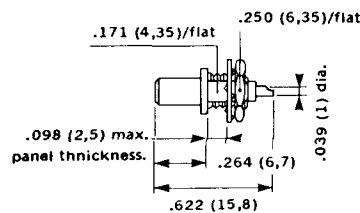
PCB RIGHT ANGLE MALE

Part Number	R 116 665 000●
Panel pattern	P07 page 24



BULKHEAD STRAIGHT MALE - Front mount

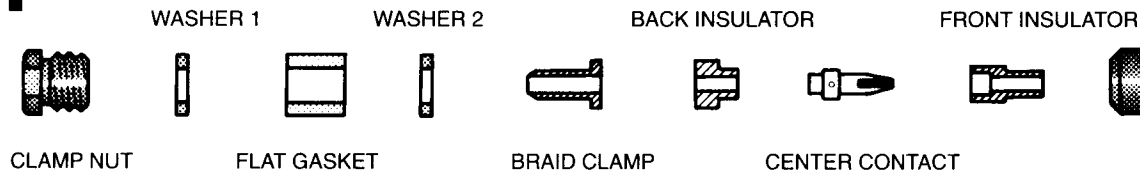
Part Number	R 116 553 000●
Panel pattern	P01 page 24



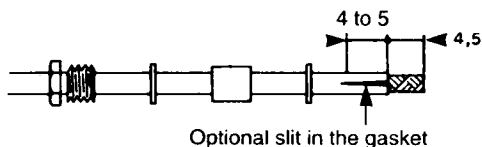
● Manufactured upon request.

ASSEMBLY INSTRUCTIONS

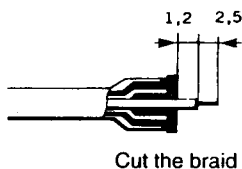
M 01



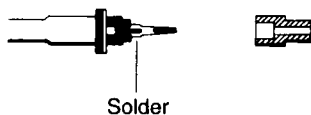
1



2



3



4



CONNECTORS

R 114 003 000
R 114 005 000
R 114 009 000
R 114 203 000
R 114 205 000
R 114 303 000
R 114 305 000

Nota

The plug and jack for 2.6/50 + 75 cables are supplied with two braid clamps :

- for 2.6/50 cable use the knurled braid clamp.
- for the 2.6/75 cable use the smooth braid clamp.

- 1-1 Place the back nut, washer 1, gasket, washer 2 on the cable.
1-2 Strip the jacket.
1-3 If necessary, make 2 slits in the jacket (when it is not possible to introduce the braid clamp under the braid).

- 2-1 Introduce the braid clamp between the dielectric and the braid.
2-2 Cut the braid to diameter of braid clamp.
2-3 Strip the dielectric.

- 3-1 Mount the rear insulator.
3-2 Solder the contact.
3-3 Mount the front insulator on the contact.

- 4-1 Mount the assembly into the body.

ASSEMBLY INSTRUCTIONS

M 02

CLAMP NUT



FLAT GASKET



WASHER 1



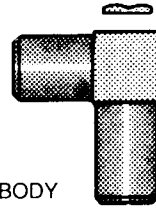
WASHER 2



BRAID CLAMP



CAP



BODY

CONNECTORS

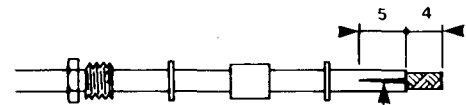
R 114 163 000
R 114 165 000

- 1-1 Place the back nut, washer 1, gasket, washer 2 on the cable.
- 1-2 Strip the cable.
- 1-3 If necessary, make 2 slits in the jacket (when it is not possible to introduce the braid clamp under the braid).

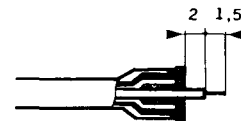
- 2-1 Introduce the braid clamp between the dielectric and the braid.
- 2-2 Cut the braid to diameter of braid clamp.
- 2-3 Strip the dielectric.

- 3-1 Mount the body.

- 4-1 Solder the cable core on the slotted contact.
- 4-2 Mount the cap (press or solder).

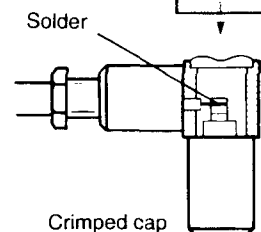
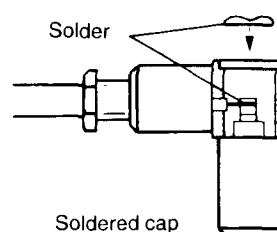
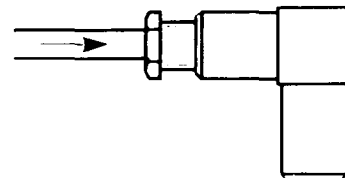


Optional slit in the gasket



Cut the braid

Tighten the clamp nut

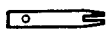


Press the cover in place

ASSEMBLY INSTRUCTIONS

M 03

CENTER CONTACT



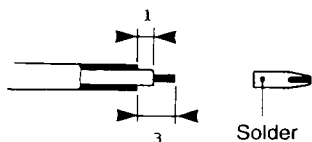
BODY



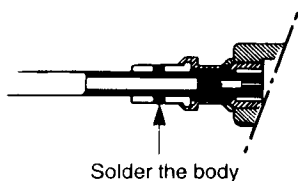
CONNECTORS

R 114 053 000

1



2



- 1-1 Strip the outside conductor and the dielectric.
- 1-2 Solder the contact.

- 2-1 Mount the assembly into the body.
- 2-2 Solder the assembly on the outside conductor.

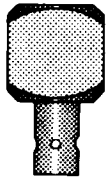
Nota :

In order to ensure correct positioning of the contact, it is recommended that a receptacle is fitted to the plug prior to soldering the body.

ASSEMBLY INSTRUCTIONS

M 04

BODY



CENTER CONTACT



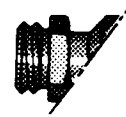
BACK INSULATOR



FRONT INSULATOR



COUPLING NUT



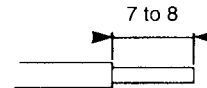
CONNECTORS

R 114 169 000

V

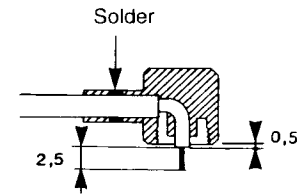
1

1-1 Strip the outside conductor.



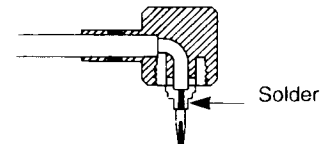
2

- 2-1 Push the cable into the main body.
- 2-2 Solder the main body on the outside conductor.
- 2-3 Strip the dielectric.



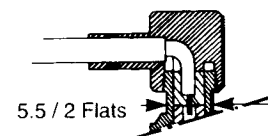
3

- 3-1 Mount the rear insulator.
- 3-2 Solder the contact, ensuring that the contact has been pushed onto the rear insulator.



4

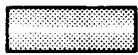
- 4-1 Mount the front insulator on the contact.
- 4-2 Screw the body onto the assembly.



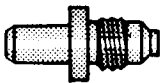
ASSEMBLY INSTRUCTIONS

M 05

FERRULE



BACK NUT



FRONT INSULATOR



BODY

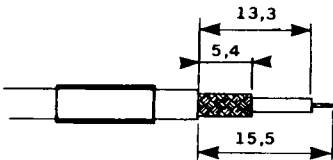


CENTER CONTACT

CONNECTORS	TOOLING	
R 114 073 000	Crimp tool or Crimp tool (M22520/5-01) + Dies (M 22520/5-03)	R 282 211 000 R 282 240 000 R 282 241 000
R 114 075 000		
R 114 075 120		
R 114 237 000		
R 114 239 000		
R 114 311 000		
R 114 312 000		

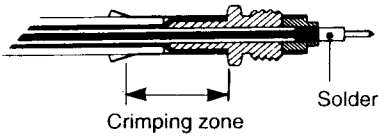
.078(2) cable dia. : hex .105(2.67) ; .102(2.6) cable dia : hex .120(3.25)

1



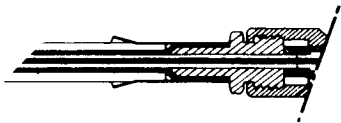
- 1-1 Place the ferrule on the cable.
- 1-2 Strip the cable.
- 1-3 Fold back the braid.

2



- 2-1 Introduce the back nut between the braid and the dielectric.
- 2-2 Crimp the ferrule.
- 2-3 Solder the contact, ensuring that the contact has been pushed onto the rear insulator.

3



- 3-1 Mount the front insulator on the contact.
- 3-2 Mount the assembly into the body.

ASSEMBLY INSTRUCTIONS

M 06

FERRULE



CAP



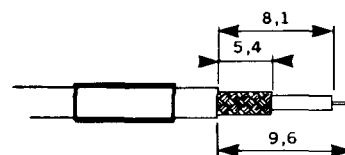
BODY

CONNECTORS	TOOLING
R 114 182 000	Crimp tool R 282 211 000
R 114 183 000	or Crimp tool (M22520/5-01) R 282 293 000
R 114 186 000	+ Dies (M 22520/5-03) R 282 235 003

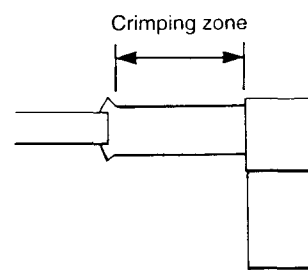
.078(2) cable dia. : hex .105(2.67) ; .102(2.6) cable dia. : hex .120(3.25)

V

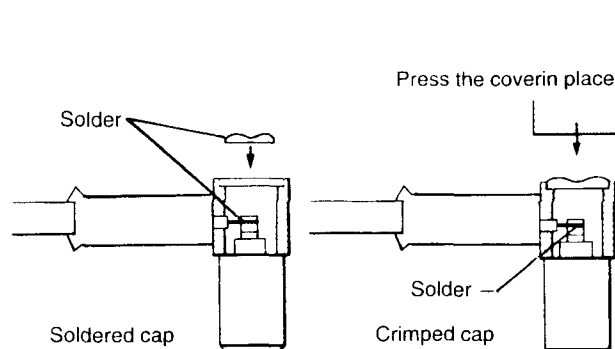
- 1-1 Place the ferrule on the cable.
- 1-2 Strip the cable.
- 1-3 Fold back the braid.



- 2-1 Mount the body on the dielectric.
- 2-2 Crimp the ferrule.



- 3-1 Solder the cable core on the slotted contact.
- 3-2 Mount the cap (press or solder).



ASSEMBLY INSTRUCTIONS

M 07

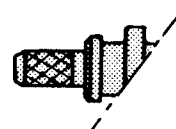
FERRULE



CENTER CONTACT

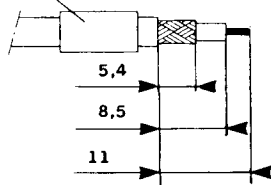


BODY

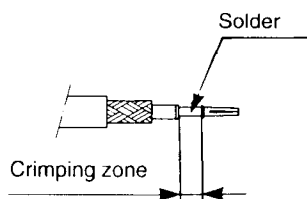


1

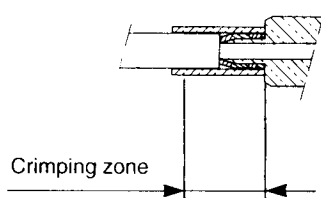
Ferrule



2



3



CONNECTORS	TOOLING	
	for contact	for ferrule
R 114 082 000 R 114 238 000 R 114 313 000	Crimp tool (M22520/2-01) R 282 281 000 + Positioner R 282 983 000	Crimp tool R 282 211 000 or Crimp tool (M22520/5-01) R 282 293 000 + Dies (M 22520/5-03) R 282 235 003
.102(2.6) cable dia. : hex .120(3.25)		

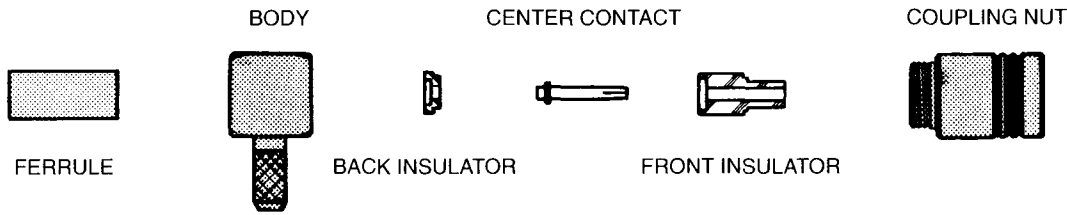
- 1-1 Place the ferrule on the cable.
- 1-2 Strip the cable.

- 2-1 Introduce the center contact on the cable core, ensuring that the contact has been pushed onto the dielectric.
- 2-2 Crimp (2 x 4 indents) or solder the contact.

- 3-1 Introduce the body under the braid.
- 3-2 Crimp the ferrule.

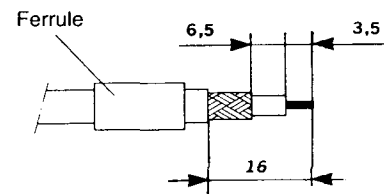
ASSEMBLY INSTRUCTIONS

M 08

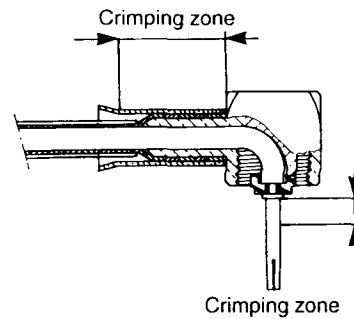


CONNECTORS	TOOLING	
	for contact	for ferrule
R 114 187 000	Crimp tool (M22520/2-01) R 282 281 000 + Positioner R 282 983 000	Crimp tool R 282 211 000 or Crimp tool (M22520/5-01) R 282 293 000 + Dies (M 22520/5-03) R 282 235 003
	.102 (2.6) cable dia. : hex .120 (3.25)	

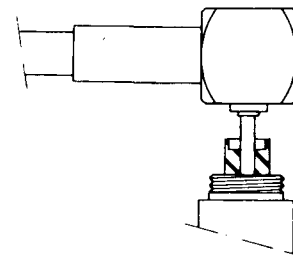
- 1-1 Place the ferrule on the cable.
1-2 Strip the cable.

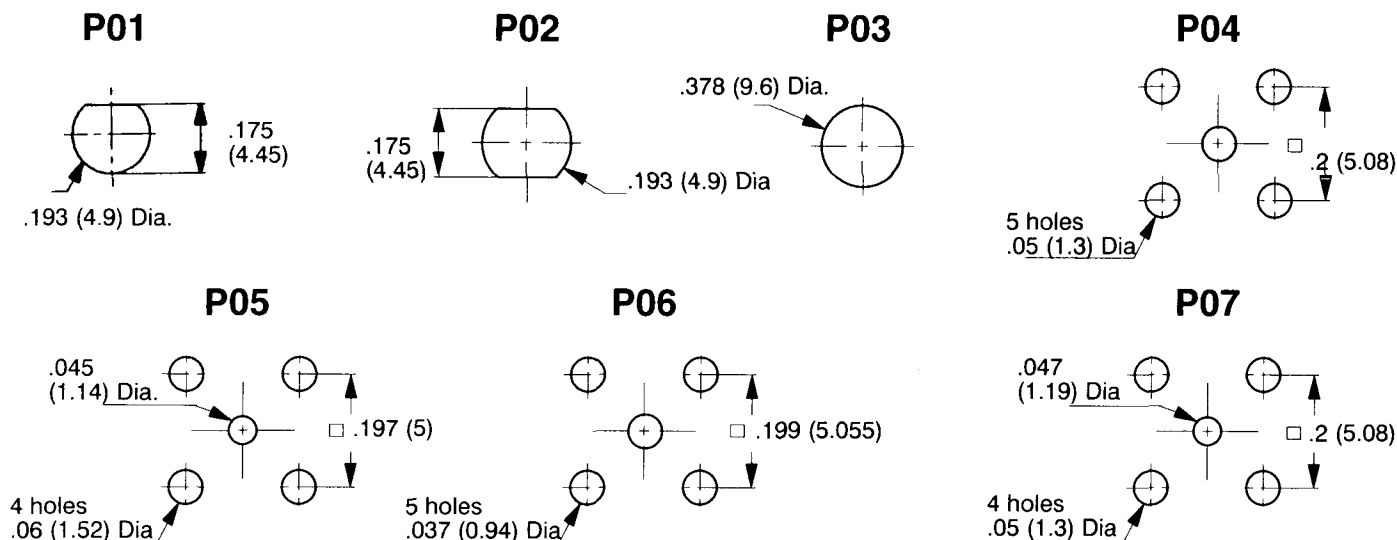


- 2-1 Push the cable into the main body.
2-2 Mount the rear insulator.
2-3 Crimp the contact (2 x 4 indents) ensuring that the contact has been pushed home into the rear insulator.
2-4 Crimp the ferrule.



- 3-1 Mount the front insulator on the contact.
3-2 Screw the body onto the assembly.





All dimensions are mini and given in inch (mm).

STANDARD CABLES AND RELEVANT CONNECTORS

Cable	Description	P/N	Page	Cable	Description	P/N	Page
.079 (2) /50	Straight plug, clamp type	R 114 003 000	6	.102 (2.6) /50D	Straight plug, crimp type	R 114 083 000	7
RG 178 B/U	Straight plug, clamp type	R 114 003 133	6	RD 316	Straight plug, crimp type	R 114 075 120	7
RG 196 A/U	Right angle plug, clamp type	R 114 163 000	6	Type KX 22 D	Right angle plug, crimp type	R 114 182 000	7
KX 21 A	Right angle plug, clamp type	R 114 163 133	6				
	Straight jack, clamp type	R 114 203 000	6	.102 (2.6) /75S	Straight plug, clamp type	R 114 005 000	6
	Straight jack, clamp type	R 114 203 133	6	RG 179 B/U	Straight plug, clamp type	R 114 005 133	6
	Bulkhead straight jack, clamp type	R 114 303 000	6	RG 187 A/U	Straight plug, crimp type	R 114 015 000	7
	Bulkhead straight jack, clamp type	R 114 303 133	6		Right angle plug, clamp type	R 114 165 000	6
	Straight plug, crimp type	R 114 073 000	7		Right angle plug, clamp type	R 114 165 133	6
	Straight plug, crimp type	R 114 073 134	7		Straight jack, clamp type	R 114 205 000	6
	Right angle plug, crimp type	R 114 183 000	7		Straight jack, clamp type	R 114 205 133	6
	Right angle plug, crimp type	R 114 183 420	7		Bulkhead straight jack, clamp type	R 114 305 000	6
	Straight jack, crimp type	R 114 237 000	8		Bulkhead straight jack, clamp type	R 114 305 133	6
	Bulkhead straight jack, crimp type	R 114 311 000	8		Straight plug, crimp type	R 114 075 000	7
					Straight plug, crimp type	R 114 075 134	7
.102 (2.6) /50S	Straight plug, clamp type	R 114 005 000	6		Straight plug, crimp type	R 114 082 000	7
RG 174 A/U	Straight plug, clamp type	R 114 005 133	6		Straight plug, crimp type	R 114 082 000	7
RG 188 A/U	Straight plug, crimp type	R 114 015 000	7		Right angle plug, crimp type	R 114 186 000	7
RG 316 /U	Right angle plug, clamp type	R 114 165 000	6		Right angle plug, crimp type	R 114 186 720	7
KX 3 B	Right angle plug, clamp type	R 114 165 133	6		Right angle plug, crimp type	R 114 187 000	7
KX 22 A	Straight jack, clamp type	R 114 205 000	6		Right angle plug, crimp type	R 114 188 000	7
	Straight jack, clamp type	R 114 205 133	6		Straight jack, crimp type	R 114 238 000	8
	Bulkhead straight jack, clamp type	R 114 305 000	6		Straight jack, crimp type	R 114 239 000	8
	Bulkhead straight jack, clamp type	R 114 305 133	6		Bulkhead straight jack, crimp type	R 114 312 000	8
	Straight plug, crimp type	R 114 075 000	7		Bulkhead straight jack, crimp type	R 114 313 000	8
	Straight plug, crimp type	R 114 075 134	7		Recessed bulkhead jack, crimp type	R 114 316 000	9
	Straight plug, crimp type	R 114 082 000	7				
	Right angle plug, crimp type	R 114 186 000	7	.150 (3.8)/95	Straight plug, clamp type	R 114 009 000	6
	Right angle plug, crimp type	R 114 186 720	7	RG 180 B/U			
	Right angle plug, crimp type	R 114 187 000	7	RG 195 A/U			
	Right angle plug, crimp type	R 114 188 000	7				
	Straight jack, crimp type	R 114 238 000	8	.085"	Straight plug, solder type	R 114 053 000	7
	Straight jack, crimp type	R 114 239 000	8	RD 405 /U	Right angle plug, solder type	R 114 169 000	7
	Bulkhead straight jack, crimp type	R 114 312 000	8	KS 1			
	Bulkhead straight jack, crimp type	R 114 313 000	8				
	Recessed bulkhead jack, crimp type	R 114 316 000	9	BT 3002	Right angle plug, crimp type	R 114 191 300	7

DIMENSIONS OF APPLICABLE CABLES

DIMENSION TABLE FOR APPLICABLE COAXIAL CABLES

The following table gives an indication of coaxial cable dimensions.

For further details, refer to standards or cable manufacturer specifications.

All dimensions are nominal or specified values

PART NUMBER	IMP Ω	DIAMETER in inch (mm)				CABLE GROUP	
		CORE		DIELECTRIC	MAX SCREEN		JACKET
		Composition	Nom. Dia.				

MIL-C-17-F CABLES

RG 6A/U	75	single core	.028(0.72)	.185(4.70)	.264(6.70) D	.332(8.43)	.315 (8)/75
RG 11A/U	75	7 X .016(0.40)	.047(1.20)	.285(7.25)	.340(8.64) S	.405(10.29)	.394 (10)/75
RG 12A/U	75	7 X .016(0.40)*	.047(1.20)	.285(7.25)	.340(8.64) S	.474(12.06)	.394 (10)/75
RG 58C/U	50	19 X .007(0.18)	.035(0.89)	.116(2.95)	.150(3.81) S	.195(4.95)	.197 (5)/50
RG 59B/U	75	single core	.022(0.57)	.146(3.71)	.191(4.85) S	.242(6.15)	.236 (6)/75
RG 62B/U	93	single core	.025(0.64)	.146(3.71)	.191(4.85) S	.242(6.15)	.236 (6)/93
RG 63B/U	125	single core	.026(0.65)	.285(7.25)	.340(8.64) S	.405(10.29)	.394 (10)/125
RG 71B/U	93	single core	.025(0.64)	.146(3.71)	.208(5.28) D	.245(6.22)	.236 (6)/93
RG 140/U	75	single core	.025(0.64)	.146(3.71)	.176(4.47) S	.233(5.92)	.236 (6)/75
RG 141A/U	50	single core	.039(0.99)	.116(2.95)	.146(3.71) S	.190(4.83)	.197 (5)/50
RG 142B/U	50	single core	.037(0.94)	.116(2.95)	.171(4.34) D	.195(4.95)	.197 (5)/50
RG 144/U	75	7 X .018(0.45)	.053(1.35)	.285(7.25)	.330(8.38) S	.409(10.40)	.394 (10)/75
RG 165/U	50	7 X .031(0.80)	.094(2.40)	.285(7.25)	.340(8.64) S	.409(10.40)	.394 (10)/50
RG 174A/U	50	7 X .006(0.16)	.019(0.48)	.060(1.52)	.088(2.24) S	.110(2.79)	.102 (2.6)/50
RG 178B/U	50	7 X .004(0.10)	.012(0.30)	.033(0.84)	.054(1.37) S	.071(1.80)	.079 (2)/50
RG 179B/U	75	7 X .004(0.10)	.012(0.30)	.063(1.60)	.084(2.13) S	.100(2.54)	.102 (2.6)/75
RG 187A/U	75	7 X .004(0.10)	.012(0.30)	.063(1.60)	.084(2.13) S	.110(2.79)	.102 (2.6)/75
RG 188A/U	50	7 X .007(0.18)	.020(0.51)	.060(1.52)	.081(2.06) S	.110(2.79)	.102 (2.6)/50
RG 196A/U	50	7 X .004(0.10)	.012(0.30)	.033(0.84)	.054(1.37) S	.071(1.80)	.079 (2)/50
RG 213/U	50	7 X .030(0.75)	.089(2.25)	.285(7.25)	.340(8.64) S	.405(10.29)	.394 (10)/50
RG 214/U	50	7 X .030(0.75)	.089(2.25)	.285(7.25)	.360(9.14) D	.425(10.80)	.433 (11)/50
RG 215	50	7 X .030(0.75)	.089(2.25)	.285(7.25)	.340(8.64) S	.405(10.29)	.394 (10)/50
RG 216	75	7 X .016(0.40)	.047(1.20)	.285(7.25)	.360(9.14) D	.425(10.80)	.433 (11)/75
RG 223/U	50	single core	.035(0.89)	.116(2.95)	.176(4.47) D	.212(5.38)	.197 (5)/50
RG 225/U	50	7 X .031(0.80)	.094(2.40)	.285(7.25)	.360(9.14) D	.429(10.90)	.433 (11)/50
RG 303/U	50	single core	.037(0.94)	.116(2.95)	.146(3.71) S	.170(4.32)	.197 (5)/50
RG 400/U	50	19 X .007(0.18)	.039(0.99)	.116(2.95)	.171(4.34) D	.195(4.95)	.197 (5)/50
RG 401/U	50	single core	.064(1.62)	.209(5.31)	--	.250(6.35)	.250"
RG 402/U	50	single core	.036(0.92)	.117(2.98)	--	.141(3.58)	.141"
RG 405/U	50	single core	.020(0.51)	.066(1.68)	--	.086(2.20)	.085"

NF-C 93-550 FLEXIBLE CABLES / NF-C 93551 SEMI-RIGID CABLES

KX 3B	50	7 X .006(0.16)	.019(0.48)	.059(1.50)	.088(2.23) S	.100(2.54)	.102 (2.6)/50
KX 4	50	7 X .029(0.75)	.089(2.25)	.285(7.25)	.340(8.64) S	.405(10.29)	.394 (10)/50
KX 6A	75	7 X .008(0.20)	.024(0.60)	.145(3.70)	.191(4.85) S	.240(6.10)	.236 (6)/75
KX 8	75	7 X .016(0.40)	.047(1.20)	.285(7.25)	.340(8.64) S	.405(10.29)	.394 (10)/75
KX 13	50	7 X .029(0.75)	.089(2.25)	.285(7.25)	.360(9.14) D	.425(10.80)	.433 (11)/50
KX 15	50	19 X .007(0.18)	.035(0.89)	.116(2.95)	.150(3.81) S	.195(4.95)	.197 (5)/50
KX 21A	50	7 X .004(0.10)	.012(0.30)	.034(0.87)	.054(1.37) S	.071(1.80)	.079 (2)/50
KX 22A	50	7 X .007(0.18)	.020(0.51)	.059(1.50)	.081(2.06) S	.098(2.50)	.102 (2.6)/50
KX 23	50	7 X .013(0.34)	.040(1.02)	.116(2.95)	.171(4.34) D	.201(5.10)	.197 (5)/50
KX 24	50	7 X .031(0.80)	.094(2.40)	.285(7.25)	.360(9.14) D	.429(10.90)	.433 (11)/50
KX 25	75	7 X .009(0.23)	.028(0.71)	.146(3.70)	.176(4.47) S	.232(5.90)	.236 (6)/75
KX 30	93	single core	.025(0.64)	.146(3.70)	.191(4.85) S	.242(6.15)	.236 (6)/93
KX 50	75	single core	.025(0.64)	.146(3.70)	.264(6.70) T	.327(8.30)	.315 (8)/75
KX 51	75	7 X .009(0.23)	.026(0.67)	.146(3.70)	.264(6.70) T	.327(8.30)	.315 (8)/75
KX 52	75	single core	.025(0.64)	.146(3.70)	.185(4.70) S	.240(6.10)	.236 (6)/75
KX 53	75	7 X .009(0.23)	.026(0.67)	.146(3.70)	.185(4.70) S	.240(6.10)	.236 (6)/75
KX 1	50	single core	.020(0.51)	.065(1.67)	--	.086(2.18)	.085"
KX 2	50	single core	.036(0.91)	.117(2.98)	--	.141(3.58)	.141"
KX 3	50	single core	.064(1.63)	.210(5.33)	--	.250(6.35)	.250"

S : 1 Braid ; D : 2 Braids ; T : 3 Braids

* Armoured

CROSS REFERENCES

QPL - MIL/RADIALL



These connectors, designed according to the military specifications MIL-C-39012, are part of the QPL (Qualified Product List). These models are corresponding to the ones without suffix.

Suffix 180 indicates a gold finish. Ex : P/N R 114 003 180 is the MIL QPL gold version of R 114 003 000. For exact dimensions and mounting of these connectors, please ask for technical data sheets.

P/N M39012	P/N RADIALL	P/N M39012	P/N RADIALL
M 39012/67-0004	R 114 005 180	M 39012/95-0001	R 114 426 180
M 39012/69-0003	R 114 163 180	M 39012/95-0002	R 114 427 180
M 39012/69-0004	R 114 165 180	M 39012/96-0001	R 114 665 180
M 39012/71-0001	R 114 554 180	M 39012/96-0002	R 114 666 180
M 39012/71-0002	R 114 553 180		

NF/RADIALL

Equival. NF	P/N RADIALL	Page	Equival. NF	P/N RADIALL	Page
KMC 1	R 114 003 000	6	KMC 9	R 114 553 000	10
KMC 2	R 114 005 000	6	KMC 10	R 114 554 000	10
KMC 3	R 114 163 000	6	KMC 11	R 114 670 000	11
KMC 4	R 114 165 000	6	KMC 12	R 114 426 000	11
KMC 5	R 114 203 000	6	KMC 13	R 114 665 000	11
KMC 6	R 114 205 000	6	KMC 21	R 114 073 000	7
KMC 7	R 114 303 000	6	KMC 31	R 114 075 000	7
KMC 8	R 114 305 000	6			

MIL(UG)/RADIALL

Equival. UG	P/N RADIALL	Page	Equival. UG	P/N RADIALL	Page
UG 1451/U	R 114 003 000	6	UG 1456/U	R 114 005 000	6
UG 1452/U	R 114 163 000	6	UG 1457/U	R 114 165 000	6
UG 1454/U	R 114 303 000	6	UG 1459/U	R 114 305 000	6

BETWEEN SERIES ADAPTERS

TAPER SLEEVES

R 191 005 000	SMB male -	APC 7®
R 191 007 000	SMB female -	APC 7®
R 191 106 000	SMB male -	SMC right angle female
R 191 209 000	SMB male -	BNC male
R 191 211 000	SMB male -	BNC female
		<i>panel sealed</i> black chromuim
R 191 212 000	SMB male -	BNC female
R 191 212 500	SMB male -	BNC bulkhead female
R 191 213 000	SMB male -	BNC female <i>panel sealed</i>
R 191 214 000	SMB female -	BNC male
R 191 215 000	SMB female -	BNC female
R 191 216 000	SMB female -	BNC female <i>panel sealed</i>
R 191 220 000	SMB female -	TNC bulkhead female
R 191 225 000	SMB male -	mQ male
R 191 227 000	SMB male -	mQ female
R 191 228 000	SMB male -	mQ female
R 191 233 000	SMB male -	N male
R 191 234 000	SMB male -	N female
R 191 236 000	SMB male -	N female
R 191 239 000	SMB female -	N female
R 191 244 000	SMB male -	C female
R 191 265 000	SMB female -	Microcllic male
R 191 267 000	SMB female -	Microcllic female

For cable .102(2.6)Dia, Packaging : 10

R 280 560 000	Black
R 280 560 001	Red
R 280 560 002	Green
R 280 560 003	Blue
R 280 560 004	Yellow
R 280 560 005	Grey
R 280 560 006	Black
R 280 560 007	Brown
R 280 560 008	Orange
R 280 560 009	Violet
R 280 560 010	Natural

V

INDEX OF RADIAL P/N

P/N RADIAL	Page	P/N RADIAL	Page	P/N RADIAL	Page	P/N RADIAL	Page
R 114 003 000	6	R 114 183 000	7	R 114 313 000	8	R 114 665 020	12
R 114 003 133	6	R 114 183 420	7	R 114 316 000	9	R 114 665 104	12
R 114 005 000	6	R 114 186 000	7	R 114 413 000	10	R 114 665 110	12
R 114 005 133	6	R 114 186 720	7	R 114 416 020	11	R 114 670 000	11
R 114 009 000	6	R 114 187 000	7	R 114 423 000	12	R 114 671 000	11
R 114 015 000	7	R 114 191 120	7	R 114 424 000	12	R 114 703 000	13
R 114 053 000	9	R 114 191 300	7	R 114 424 100	12	R 114 704 000	13
R 114 073 000	7	R 114 203 000	6	R 114 424 120	12	R 114 720 000	13
R 114 073 134	7	R 114 203 133	6	R 114 426 000	11	R 114 753 000	13
R 114 075 000	7	R 114 205 000	6	R 114 426 020	11	R 114 780 000	13
R 114 075 120	7	R 114 205 133	6	R 114 426 030	11	R 114 781 000	13
R 114 075 134	7	R 114 237 000	8	R 114 426 042	11	R 114 880 000	13
R 114 082 000	7	R 114 238 000	8	R 114 426 530	11		
R 114 083 000	7	R 114 239 000	8	R 114 553 000	10	R 115 427 000	14
R 114 163 000	6	R 114 303 000	6	R 114 554 000	10	R 115 556 000	14
R 114 163 133	6	R 114 303 133	6	R 114 566 000	10	R 115 666 000	14
R 114 165 000	6	R 114 305 000	6	R 114 603 000	10		
R 114 165 133	6	R 114 305 133	6	R 114 661 020	12	R 116 426 000	15
R 114 169 000	9	R 114 311 000	8	R 114 664 000	12	R 116 553 000	15
R 114 182 000	7	R 114 312 000	8	R 114 665 000	12	R 116 665 000	15