

M&P
RG 58 C/U
 MIL C17-F



JACKET :
 UV-resistant black PVC
 overall Ø 5mm ± 0,15
 (0.197 inches ± 0.0059)

BRAID: 92% SCREENING
 112 wires of **tinned copper**
 The braid process is
 operated by means of 16
 spools braiding machines

DIELECTRIC :
solid polyethylene
 overall Ø 2,95 mm ± 0,05 (0.116 inch. ± 0.0019)

INNER CONDUCTOR :

19x0,18mm **tinned copper** wires - overall Ø 0,90mm ± 0,15
 (19x0.007 inches - overall Ø 0.035 inches ± 0.0059)

ATTENUATION (20°C /68°F)

FREQUENCY	dB/100m	dB/100ft
1,8 MHz	2,1	0,6
3,5 MHz	2,9	0,8
7 MHz	3,9	1,1
10 MHz	4,7	1,4
14 MHz	5,6	1,7
21 MHz	6,7	2,0
28 MHz	7,9	2,4
50 MHz	10,8	3,2
100 MHz	15,8	4,8
144 MHz	19,3	5,8
200 MHz	22,1	6,7
400 MHz	33,3	10,1
430 MHz	34,9	10,6
800 MHz	51,1	15,5
1000 MHz	58,0	17,6
1296 MHz	63,0	19,2

ELECTRICAL DATA

Impedance @200Mhz:	50 Ohm ± 3
Minimum bending radius:	{ up to 15 bends: 50mm (1.97 in) single bend (choke): 25mm (0.98 in)
Temperature:	-40°C to +60°C (-40°F to +140°F)
Capacitance:	101 pF/m ± 2 (30.8 pF/ft ± 2)
Velocity ratio:	66%
Screening Efficiency (SA)	100-900 MHz >55 dB
Screening Class:	A++
Inner conductor resistance:	37 Ohm/Km (11.3 Ohm/1000ft)
Outer conductor resistance:	15 Ohm/Km (4.6 Ohm/1000ft)
Tension test (spark test):	4 kV
Net weight (100m/100ft):	3,7 Kg (2,4 lb)
Maximum peak power:	2.000 WATT
Connectors:	UHF (PL), N, BNC, SMA, TNC

SRL

0,3-600 MHz	>35 dB
600-1200 MHz	>30 dB
1200-2000 MHz	>30 dB

POWER HANDLING (40°C/104°F)

FREQUENCY	MAX P.
1,8 MHz	1321 W
3,5 MHz	1138 W
7 MHz	846 W
10 MHz	702 W
14 MHz	589 W
21 MHz	493 W
28 MHz	418 W
50 MHz	306 W
100 MHz	209 W
144 MHz	171 W
200 MHz	149 W
400 MHz	99 W

OUR PRODUCTS ARE MANUFACTURED IN COMPLIANCE WITH:
 CEI 46-1 (construction parameters); EN 50117 (screening efficiency); CEI EN 50289 (SA test methods); R118 (ISO7622-1);
 IEC 60332-1-2 (cables with PVC and LSZH jacket); CPR305/11 (EN50575:2014 - DoP number: MP00111)

Connector assembly

Connector "N" type



1 Make a circular cut on the black PVC outer jacket at the indicated length shown in the caliber (in mm). Subsequently remove it.

2 Insert in the cable components A, B, C and immediately after, make a circular cut on the red PE jacket at the indicated length shown in the caliber (in mm). Subsequently remove it.

3 After having made the first cut, as shown in picture 2, rotate the cable 180 degrees and make a second cut in the same way, in order to facilitate the introduction of component D

4 Insert component D after having opened the braid as shown in the picture. Push component D between the foil and the braid until it stops against the red PE jacket.

5 Flatten the wires as shown in the picture and cut the excess.



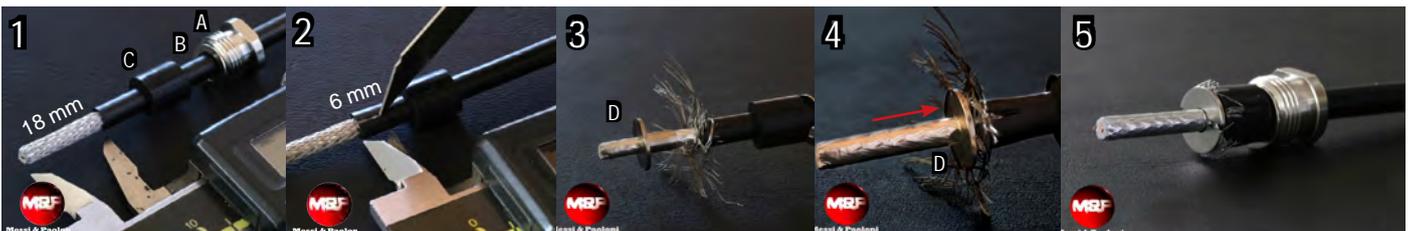
6 Cut and remove the tape and dielectric for a length as shown in the picture (in mm).

7 Insert one of the two teflon discs and subsequently the central pin. Solder the pin to the inner conductor, inserting tin in the provided hole. Avoid heating the pin for a too long time in order not to damage with excessive heat the cable dielectric (which is not made in teflon!)

8 Insert the second teflon disc as shown in the picture.

9 Insert the connector and fasten accurately until the o-ring present in component A, will be pressed against the connector body. Inside, the rubber component C (pic. 1) will expand, granting optimal sealing against moisture and a perfect contact to ground.

Connector "UHF/PL" type



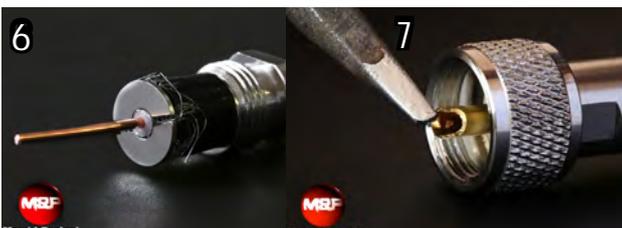
1 Insert in the cable components A, B, C and immediately after, make a circular cut on the jacket at the indicated length shown in the caliber. (in mm). Subsequently remove it.

2 After having made the first cut, as shown in picture 2, rotate the cable 180 degrees and make a second cut in the same way, in order to facilitate the introduction of component D (pic.3 and 4)

3 Insert component D after having opened the braid as shown in the picture.

4 Push component D between the foil and the braid until it stops against the jacket.

5 Flatten the wires as shown in the picture and cut the excess.



6 Cut and remove the tape and dielectric for a length as shown in the picture.

7 Insert the connector and solder it with tin to the inner conductor (see picture above). Avoid heating for a too long time in order not to damage with excessive heat the cable dielectric (which is not made in teflon!)

8 Fasten together the connector and component A, until it will be pressed against the connector body. Inside, the rubber component C (pic. 1) will expand, granting optimal sealing against moisture and a perfect contact to ground.



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CONNECTORS for 5mm/.200" cables

N solder male



UHF/PL solder male



BNC solder male



TNC solder male



NO braid soldering needed!

Perfect match with M&P
PRO cables! 105dB (SA)

Humidity proof
compression design!

Dramatic suppression of
the background noise!

SMA crimp male



UHF/PL solder female



N solder female

