



(Double - Jacket)

Broad-Pro 50
Biguaina

High resistance copper screen (Cu) made by means of 24 spools braiding machines. This braid is **HIGHLY EFFECTIVE AGAINST LOW FREQUENCY IMPULSIVE NOISES.**

SCREENING PERCENTAGE: 71%

High pressure physical injection foamed polyethylene **TRIPLE LAYER DIELECTRIC**

FPE Ø 7,3 ± 0,05 mm

144 wires

* Black protective PVC jacket, waterproof and UV resistant. This cable can be laid underground. The red PE jacket clearly shows potential cracks on the above external sheath. (wich might occur during rough pulling inside the pipes)

Inner conductor : 99,99% pure electrolytic annealed bare copper.
(annealed = thermal softening process)

Cu Ø 2,7 mm

The copper foil has an applied PE-coating, placed in order to prevent foil cracking due to short radius bends.

SCREENING PERCENTAGE 100%

CU-POL

ELECTRICAL DATA

Impedance:	50 Ohm ± 3
Minimum bending radius:	
Multiple bends/single bend	124/80 mm
Temperature:	installation -40° to +60° C
	operative -55° to +85° C
Capacitance:	74 pF/m ± 2
Velocity ratio:	85 %
Screening efficiency:	
100-2000 MHz	>105 dB
Class	A++
Inner conductor resistance:	3,2 Ohm/Km
Outer conductor resistance:	9,2 Ohm/Km
Tension test (spark test):	8 kV
Weight (100m):	16,8 Kg
Connettori:	C.N.BROAD50-M - C.UHF.BROAD50 - C.BROAD.PL259
	C.BNC.BROAD50-M

STRUCTURAL RETURN LOSS

0,3-600 MHz	>30 dB
600-1200 MHz	>25 dB
1200-2000 MHz	>20 dB

HINTS ABOUT POWER HANDLING:

The cable length is negatively related to the power handling: the longer is the cable length the higher the electrical resistance will be, which turns into heat to dissipate. Moreover unwanted stationary waves ratios, are making the situation even worse. In SSB operations a 5/6 seconds transmission time, followed by the same reception lag, is giving the chance to consider the power handling values in the chart as doubled.

black PVC Ø 12,4 mm
± 0,20

red PE Ø 9,9 mm
± 0,20



RoHS COMPLIANT 2002/95/EG

ATTENUATION at 20°C

FREQUENCY	dB/100m	dB/100ft
1,8 MHz	0,60	0,19
3,5 MHz	0,80	0,25
7,0 MHz	1,05	0,32
10 MHz	1,21	0,37
14 MHz	1,39	0,42
21 MHz	1,75	0,51
28 MHz	1,93	0,59
50 MHz	2,60	0,79
100 MHz	3,70	1,12
144 MHz	4,59	1,40
200 MHz	5,40	1,64
400 MHz	8,00	2,43
430 MHz	8,20	2,50
800 MHz	11,60	3,53
1000 MHz	13,00	3,96
1200 MHz	14,49	4,42
2400 MHz	21,50	6,56
3000 MHz	24,70	7,53

MAXIMUM POWER

FREQ.	MAXP
1,8 MHz	7470 W
3,5 MHz	7130 W
7,0 MHz	6730 W
10 MHz	6490 W
14 MHz	6230 W
21 MHz	5730 W
28 MHz	5500 W
50 MHz	4710 W
100 MHz	3660 W
144 MHz	2980 W
200 MHz	2470 W
400 MHz	1360 W
430 MHz	1300 W
800 MHz	640 W
1000 MHz	490 W
1200 MHz	470 W
2400 MHz	260 W
3000 MHz	110 W

Maximum peak power:

8500 WATT