



AC/7 Plus

EXTRAFLEXIBLE
UV resistant PVC jacket.
PVC Ø 7,3 ± 0,15 mm

High resistance copper screen (Cu) made by means of 24 spools braiding machines. This braid is **HIGHLY EFFECTIVE AGAINST IMPULSIVE NOISES**.
SCREENING PERCENTAGE: 83%

144 wires

High pressure physical injection foamed polyethylene.
TRIPLE LAYER DIELECTRIC
FPE Ø 5 ± 0,05 mm

ATTENUATION at 20°C

FREQUENCY	dB/100m	dB/100ft
1,8 MHz	0,6	0,19
3,5 MHz	0,9	0,27
7,0 MHz	1,2	0,36
10 MHz	1,6	0,48
14 MHz	2,1	0,64
21 MHz	2,6	0,79
28 MHz	3,0	0,91
50 MHz	4,0	1,21
100 MHz	5,8	1,76
144 MHz	6,9	2,10
200 MHz	8,2	2,49
400 MHz	11,8	3,59
430 MHz	12,3	3,74
800 MHz	17,1	5,21
1000 MHz	19,3	5,88
1200 MHz	21,3	6,49
2400 MHz	32,3	9,84
3000 MHz	36,2	11,03

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

Inner conductor made of 19X0,38 stranded geometric and concentric copper wires. Purity 99,99% annealed.

(annealed = thermal softening process)

Cu 19x0,38 mm - Ø 1,9 mm

ELECTRICAL DATA

Impedance:	50 Ohm ± 3
Minimum bending radius:	
Multiple bends(15)/single bend	68/34 mm
Temperature:	installation -40° to + 60° C
	operative -55° to + 85° C
Capacitance:	75 pF/m ± 2
Velocity ratio:	83 %
Screening efficiency:	
100-2000 MHz	>105 dB
Inner conductor resistance:	7,3 Ohm/Km
Outer conductor resistance:	9,8 Ohm/Km
Tension test (spark test):	4 kV
Weight (100m):	6,9 Kg
Connectors:	C.N.AC7M-S
	C.UHF.AC7.M-S
Maximum peak power:	4400 WATT

STRUCTURAL RETURN LOSS

0,3-600 MHz	>28 dB
600-1200 MHz	>22 dB
1200-2000 MHz	>18 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.

POWER HANDLING

FREQ.	MAXP
1,8 MHz	3890 W
3,5 MHz	3700 W
7,0 MHz	3380 W
10 MHz	3080 W
14 MHz	2740 W
21 MHz	2450 W
28 MHz	2230 W
50 MHz	1820 W
100 MHz	1200 W
144 MHz	910 W
200 MHz	680 W
400 MHz	460 W
430 MHz	440 W
800 MHz	370 W
1000 MHz	330 W
1200 MHz	290 W
2400 MHz	50 W



RoHS
COMPLIANT
2002/95/EG