M&P UltraFlex 10

(H2010, NEOFLEX 10)

EXTRAFLEXIBLE

UV resistant PVC jacket.

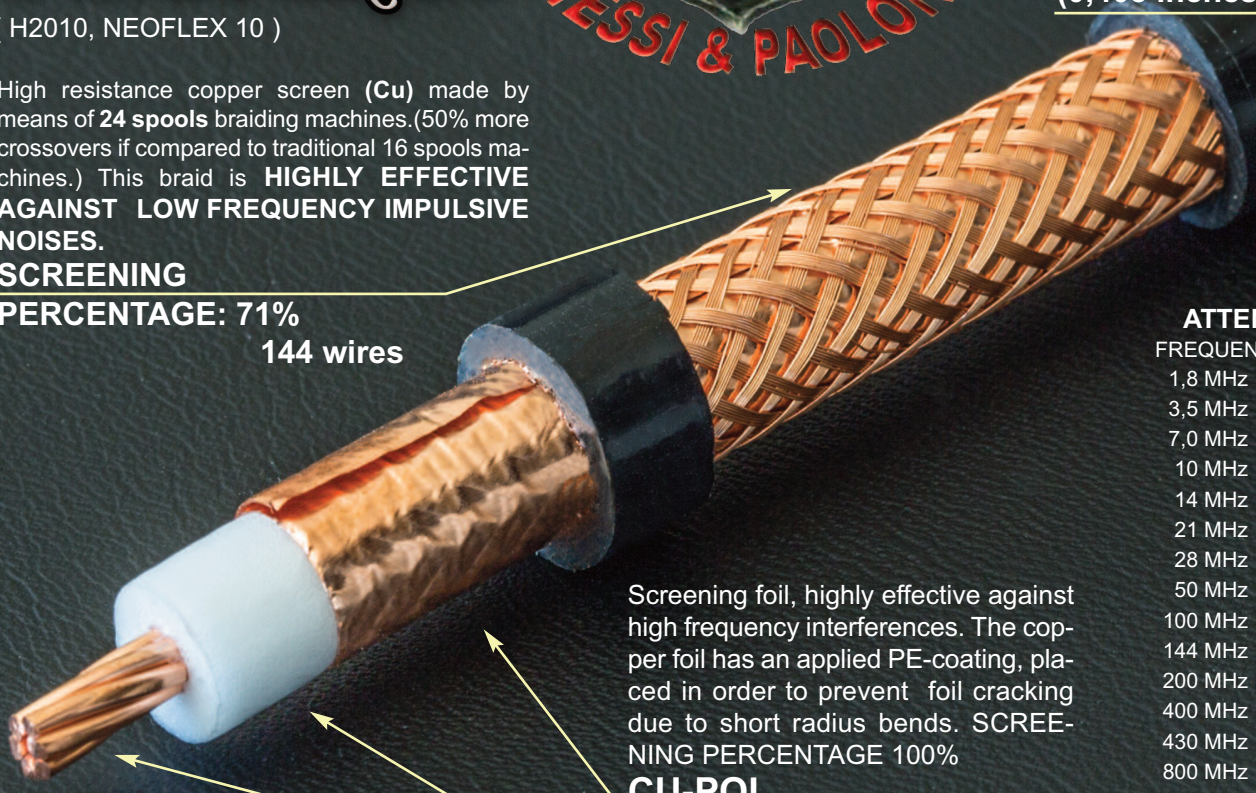
PVC Ø 10,3 ± 0,15 mm

(0,405 inches)

High resistance copper screen **(Cu)** made by means of **24 spools** braiding machines.(50% more crossovers if compared to traditional 16 spools machines.) This braid is **HIGHLY EFFECTIVE AGAINST LOW FREQUENCY IMPULSIVE NOISES.**

SCREENING PERCENTAGE: 71%

144 wires



Screening foil, highly effective against high frequency interferences. 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 7X1,0 stranded, geometric and concentric annealed copper wires. Purity 99,99%. (annealed = thermal softening process) **(7x0,039 inches)**

Cu 7x1,0 mm - Ø 3 mm

(0,118 inches)

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

FPE Ø 7,3 ± 0,05 mm

ATTENUATION at 20°C

FREQUENCY	dB/100m	dB/100ft
1,8 MHz	0,70	0,21
3,5 MHz	0,90	0,27
7,0 MHz	1,14	0,35
10 MHz	1,30	0,40
14 MHz	1,59	0,48
21 MHz	1,90	0,58
28 MHz	2,14	0,65
50 MHz	2,76	0,84
100 MHz	3,93	1,20
144 MHz	4,74	1,44
200 MHz	5,72	1,74
400 MHz	8,31	2,53
430 MHz	8,65	2,64
800 MHz	12,17	3,71
1000 MHz	13,81	4,21
1296 MHz	16,4	5,0
2400 MHz	23,75	7,24
3000 MHz	27,3	8,32
4000 MHz	32,9	10,03
5000 MHz	38,9	11,86
6000 MHz	44,5	13,56
7000 MHz	50,2	15,30
8000 MHz	55,8	17,01

SRL

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

ELECTRICAL DATA

Impedance @200MHz:	50 Ohm ± 3
Minimum bending radius:	
Multiple bends(15)/single bend	80/40 mm
Temperature range:	
installation	-40° to +60° C
operative	-55° to +85° C
Capacitance:	78 pF/m ± 2
Velocity ratio:	83 %
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):	13 Kg
Maximum peak power:	13000 WATT

Connectors: C.BNC.BROAD50-M ; C.N.BROAD50-M ; C.UHF.BROAD50-M ; C.BROAD.PL259-A ;.TNC.BROAD50-M-S

POWER HANDLING (at 40C°/104 F°)

FREQUENCY	MAXP	FREQUENCY	MAXP
1,8 MHz	9927 W	430 MHz	803 W
3,5 MHz	7721 W	800 MHz	571 W
7,0 MHz	7164 W	1000 MHz	503 W
10 MHz	5345 W	1296 MHz	445 W
14 MHz	4370 W	2400 MHz	293 W
21 MHz	3657 W	3000 MHz	255 W
28 MHz	3247 W	4000 MHz	211 W
50 MHz	2518 W	5000 MHz	182 W
100 MHz	1768 W	6000 MHz	162 W
144 MHz	1466 W	7000 MHz	138 W
200 MHz	1215 W	8000 MHz	125 W
400 MHz	836 W		

Our products are manufactured in compliance with: CEI 46-1 (construction parameters); EN 50117(screening efficiency); CEI EN 50289(SA test methods); IEC 60332-1-2(cables with LSZH jacket); EN 50290-2-22(cables with PVC jacket); EN 50290-2-23(cables with PE jacket); CEI EN 60332-3-22 (Cables with LSZH/FRNC jacket, when installed, vertically or horizontally laid,bunched on cable trays, in conduit or pipes, as potential vectors for fire propagation).