



# M&P HyperFlex 10

## EXTRAFLEXIBLE

UV resistant PVC jacket.  
PVC Ø 10,3 ± 0,15 mm  
(0,405 inches)



High resistance copper clad aluminium screen (CCA) 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: 78% 168 wires**

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	0,7	0,21
3,5 MHz	0,9	0,27
7,0 MHz	1,16	0,35
10 MHz	1,34	0,41
14 MHz	1,55	0,47
21 MHz	1,84	0,56
28 MHz	2,07	0,63
50 MHz	2,76	0,84
100 MHz	3,95	1,20
144 MHz	4,76	1,45
200 MHz	5,67	1,73
400 MHz	8,3	2,53
430 MHz	8,6	2,62
800 MHz	11,96	3,65
1000 MHz	13,47	4,11
1296 MHz	15,49	4,72
2400 MHz	21,8	6,64
3000 MHz	24,66	7,52
4000 MHz	29,1	8,87
5000 MHz	33,1	10,09
6000 MHz	36,9	11,25
7000 MHz	40,7	12,41
8000 MHz	44,2	13,47
9000 MHz	47,5	14,48
10.000 MHz	50,7	15,45

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 19x0,59 stranded, geometric and concentric annealed copper wires. Purity 99,99%. (annealed = thermal softening process) (19x0,023 inches)

**Cu 19x0,59 mm - Ø 3 mm**  
(0,118 inches)

## 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:	87 %
Screening efficiency:	
100-2000 MHz	>105 dB
Class	A++
Inner conductor resistance:	3,6 Ohm/Km
Outer conductor resistance:	12 Ohm/Km
Tension test (spark test):	8 kV
Weight (100m):	11,1 Kg
Maximum peak power:	13 KWATT

## POWER HANDLING (at 40°C/104 F°)

FREQUENCY	MAXP	FREQUENCY	MAXP
1,8 MHz	9927 W	430 MHz	808 W
3,5 MHz	7721 W	800 MHz	581 W
7,0 MHz	5990 W	1000 MHz	516 W
10 MHz	5186 W	1296 MHz	449 W
14 MHz	4483 W	2400 MHz	319 W
21 MHz	3777 W	3000 MHz	282 W
28 MHz	3357 W	4000 MHz	239 W
50 MHz	2518 W	5000 MHz	210 W
100 MHz	1759 W	6000 MHz	188 W
144 MHz	1460 W	7000 MHz	171 W
200 MHz	1226 W	8000 MHz	157 W
400 MHz	837 W	10.000 MHz	137 W

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

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 50289-2-22(cables with PVC jacket); EN 50289-2-23(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).