

M&P

UltraFlex 10

EVOlution /400"



JACKET :
UV - resistant
black **PVC** or **PE**
overall Ø 10,3mm
± 0,15 (0.405")

REACTIVE BRAID :

85% SCREENING -192 wires of **copper clad aluminium** made with 24 spool machines (instead of 16). Thanks to 50% more crossovers, grants exceptional Screening Attenuation (SA) and reacts to twisting and bending like a spring

FOIL: 100% SCREENING

First screen made of **copper** with an applied PE-layer: prevents cracking due to short radius bends

DIELECTRIC :

High pressure physical injection
foamed polyethylene
TRIPLE LAYER
overall Ø 7,3 mm ± 0,05 (0.287")

INNER CONDUCTOR :

7x1.0mm **copper** wires - overall Ø 2,9 mm ± 0,15
(7x0.039" - overall Ø 0.114")

ATTENUATION (20°C/68°F)

FREQUENCY	dB/100m	dB/100ft
1,8 MHz	0,8	0,2
3,5 MHz	1,0	0,3
7 MHz	1,2	0,3
10 MHz	1,3	0,4
14 MHz	1,5	0,4
21 MHz	1,8	0,5
28 MHz	2,0	0,6
50 MHz	2,7	0,8
100 MHz	3,9	1,1
144 MHz	4,7	1,4
200 MHz	5,7	1,7
400 MHz	8,3	2,5
430 MHz	8,6	2,6
800 MHz	12,1	3,7
1000 MHz	13,8	4,2
1296 MHz	16,4	5,0
2400 MHz	23,7	7,2
3000 MHz	27,3	8,3
4000 MHz	32,9	10,0
5000 MHz	38,9	11,8
6000 MHz	44,5	13,5
7000 MHz	50,2	15,3
8000 MHz	55,8	17,0

ELECTRICAL DATA

Impedence @200Mhz:	50 Ohm ± 3
Minimum bending radius:	up to 15 bends: 80mm (3.15 in) single bend (choke): 40mm (1.57 in)
Temperature:	-40°C to +60°C (-40°F to +140°F)
Capacitance:	78 pF/m ± 2 (23.8 pF/ft ± 2)
Velocity factor:	83%
Screening Efficiency (SA)	100-2000 MHz >105 dB
Inner conductor resistance:	3,2 Ohm/Km (1.0 Ohm/1000ft)
Outer conductor resistance:	12 Ohm/Km (2.8 Ohm/1000ft)
Tension test (spark test):	8 kV
Net weight x 100m (100ft):	11,6 Kg (7,8 lb)
Maximum peak power:	12000 WATT
Structural Return Loss:	0,3-600 MHz 600-1200 MHz 1200-2000 MHz >30 dB >25 dB >20 dB

POWER HANDLING (40°C/104°F)

FREQUENCY	MAX P.	FREQUENCY	MAX P.
1,8 MHz	6427 W	430 MHz	587 W
3,5 MHz	5142 W	800 MHz	419 W
7 MHz	4285 W	1000 MHz	372 W
10 MHz	3955 W	1296 MHz	321 W
14 MHz	3428 W	2400 MHz	223 W
21 MHz	2856 W	3000 MHz	193 W
28 MHz	2437 W	4000 MHz	158 W
50 MHz	1849 W	5000 MHz	135 W
100 MHz	1275 W	6000 MHz	117 W
144 MHz	1049 W	7000 MHz	104 W
200 MHz	883 W	8000 MHz	93 W
400 MHz	610 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 - EuroClass Eca - EN50575:2014 - DoP number: MP00102