



M&P

POTA-FLEX 7

1.300"

YELLOW JACKET:

High visibility and reflective **polyethylene**, for outdoor use, direct burial, trample resistant & constant handling overall \varnothing 7,65mm \pm 0,15 (0.301")

TWIN BRAID + COPPER FOIL

1st Braid = 83% SCREENING - 144 wires of **copper clad aluminium**
 2nd Braid = 80% SCREENING - 144 wires of **copper clad aluminium**
 Light and flexible, yet sturdy: the twin braids form a real **armor** to resist extreme conditions. This device has been designed for demanding applications: for a longer operative life consider treating it wisely.

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 \varnothing 5 mm \pm 0,05 (0.196")

INNER CONDUCTOR:

19x0,38mm **copper** wires - overall \varnothing 1,9 mm \pm 0,15
 (19x0.015" - overall \varnothing 0.075")

ATTENUATION (20°C/68°F)

FREQUENCY	dB/100m	dB/100ft
1,8 MHz	1,1	0,3
3,5 MHz	1,3	0,4
7 MHz	1,7	0,5
10 MHz	1,9	0,6
14 MHz	2,2	0,6
21 MHz	2,6	0,8
28 MHz	3,0	0,9
50 MHz	4,0	1,2
100 MHz	5,8	1,7
144 MHz	6,9	2,1
200 MHz	8,2	2,5
400 MHz	11,8	3,6
430 MHz	12,3	3,7
800 MHz	17,1	5,2
1000 MHz	19,3	5,8
1296 MHz	22,3	6,8
2400 MHz	32,3	9,8
3000 MHz	36,2	11,0
4000 MHz	42,6	12,9
5000 MHz	49,3	15,0
6000 MHz	55,3	16,8
7000 MHz	61,6	18,7
8000 MHz	68,4	20,8

ELECTRICAL DATA

Impedance @200Mhz:	50 Ohm \pm 3
Minimum bending radius:	successfully tested up to 100 bends, using our "PotaSpeed" with inner core \varnothing 126mm (4,96 in)
Temperature:	-40°C to +60°C (-40°F to +140°F)
Capacitance:	75 pF/m \pm 2 (22.9 pF/ft \pm 2)
Velocity factor:	83%
Screening Efficiency (SA)	100-2000 MHz >105 dB
Inner conductor resistance:	7,3 Ohm/Km
Outer conductor resistance:	12 Ohm/Km
Tension test (spark test):	4 kV
Net weight 100m (100ft):	5,4 Kg (3,63 lbs)
Maximum peak power:	8000 WATT
Structural Return Loss:	0,3-600 MHz >28 dB 600-1200 MHz >22 dB 1200-2000 MHz >18 dB

POWER HANDLING (40°C/104°F)

FREQUENCY	MAX P.	FREQUENCY	MAX P.
1,8 MHz	4572 W	430 MHz	353 W
3,5 MHz	3393 W	800 MHz	254 W
7 MHz	2714 W	1000 MHz	225 W
10 MHz	2286 W	1296 MHz	195 W
14 MHz	1974 W	2400 MHz	134 W
21 MHz	1670 W	3000 MHz	120 W
28 MHz	1448 W	4000 MHz	102 W
50 MHz	1086 W	5000 MHz	88 W
100 MHz	749 W	6000 MHz	79 W
144 MHz	629 W	7000 MHz	71 W
200 MHz	530 W	8000 MHz	63 W
400 MHz	368 W		

OUR PRODUCTS ARE MANUFACTURED IN COMPLIANCE WITH:

CEI 46-1 (construction parameters); EN 50117 (screening efficiency); CEI EN 50289 (SA test methods); CPR305/11 - EuroClass Fca - EN50575:2014