M&P

POTA-FLEX 6

/.232”

YELLOW JACKET:

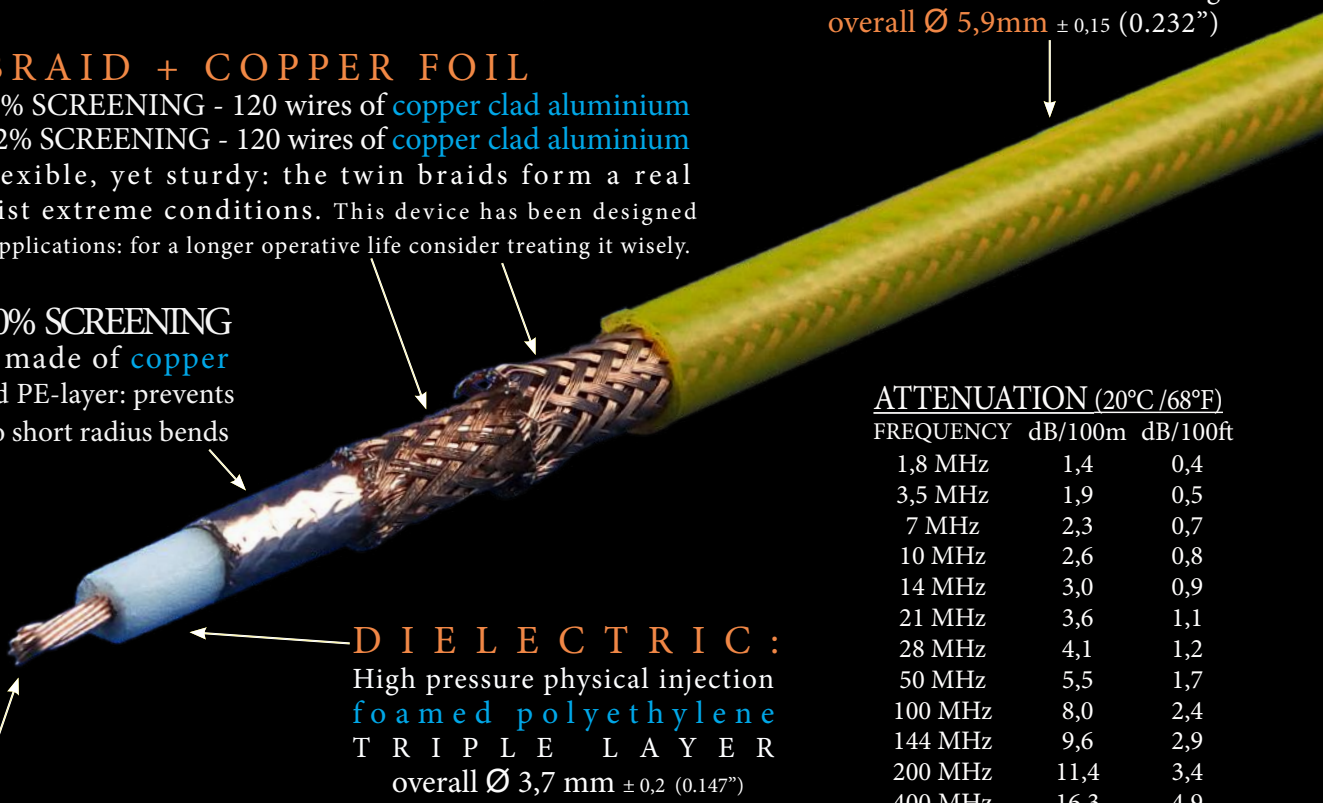
High visibility and reflective polyethylene, for outdoor use, direct burial, trample resistant & constant handling overall Ø 5,9mm ± 0,15 (0.232”)

TWIN BRAID + COPPER FOIL

1st Braid = 85% SCREENING - 120 wires of copper clad aluminium
2nd Braid = 82% SCREENING - 120 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 Ø 3,7 mm ± 0,2 (0.147”)

INNER CONDUCTOR:

19x0,29mm copper wires - overall Ø 1,4 mm ± 0,15
(19x0.011” - overall Ø 0.055”)

ATTENUATION (20°C /68°F)

FREQUENCY	dB/100m	dB/100ft
1,8 MHz	1,4	0,4
3,5 MHz	1,9	0,5
7 MHz	2,3	0,7
10 MHz	2,6	0,8
14 MHz	3,0	0,9
21 MHz	3,6	1,1
28 MHz	4,1	1,2
50 MHz	5,5	1,7
100 MHz	8,0	2,4
144 MHz	9,6	2,9
200 MHz	11,4	3,4
400 MHz	16,3	4,9
430 MHz	17,0	5,1
800 MHz	23,4	7,1
1000 MHz	26,4	8,0
1296 MHz	30,5	9,3
2400 MHz	42,5	12,9
3000 MHz	48,1	14,6
4000 MHz	56,9	17,3
5000 MHz	65,2	19,9
6000 MHz	72,9	22,2

ELECTRICAL DATA

Impedence @200Mhz:	50 Ohm ± 3
Minimum bending radius:	successfully tested up to 100 bends, using our “PotaSpeed” with inner core Ø126mm (4,96 in)
Temperature:	-45°C to +70°C (-49°F to +158°F)
Capacitance:	74 pF/m ± 2 (22.6 pF/ft ± 2)
Velocity factor:	87%
Screening Efficiency (SA)	100-2000 MHz >105 dB
Inner conductor resistance:	14 Ohm/Km
Outer conductor resistance:	14 Ohm/Km
Tension test (spark test):	4 kV
Net weight 100m (100ft):	3,5 Kg (2.35 lbs)
Maximum peak power:	2900 WATT
Structural Return Loss:	0,3-600 MHz >28 dB; 600-1200 MHz >25 dB; 1200-2000 MHz >22 dB

POWER HANDLING (40°C/104°F)

FREQUENCY	MAX P.	FREQUENCY	MAX P.
1,8 MHz	1274 W	400 MHz	115 W
3,5 MHz	987 W	430 MHz	111 W
7 MHz	809 W	800 MHz	80 W
10 MHz	717 W	1000 MHz	71 W
14 MHz	620 W	1296 MHz	62 W
21 MHz	518 W	2400 MHz	44 W
28 MHz	453 W	3000 MHz	39 W
50 MHz	338 W	4000 MHz	33 W
100 MHz	235 W	5000 MHz	29 W
144 MHz	195 W	6000 MHz	26 W
200 MHz	165 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