M&P Hyperflex 5 /.212"

Ham Radio Pro Cables — M&P — MESSI & PAOLONI

CE Pb RoHS Compliant 2002/95/EC

JACKET:
UV-resistant black PVC
overall Ø 5,4mm ± 0,15
(0.212")

REACTIVE BRAID:
88% SCREENING - 120 wires of copper 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 3,7 mm ± 0,05 (0.145")

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:	up to 15 bends: 50mm (1.97 in) single bend (choke): 25mm (0.98 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 (4.3 Ohm/1000ft)
Outer conductor resistance:	11 Ohm/Km (3.4 Ohm/1000ft)
Tension test (spark test):	4 kV
Net weight (100m/100ft):	4,4 Kg (3 lb)
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); R118 (ISO7622-1); IEC 60332-1-2 (cables with PVC and LSZH jacket); CPR305/11 - **EuroClass Eca** - EN50575:2014 - DoP number: MP0097