

M&P

Hyperflex 10

1.400"



J A C K E T :
UV-resistant black **PVC**
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 :

19x0,59mm **copper** wires - overall Ø 2,9 mm ± 0,15
(19x0.023" - 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	1,1	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	5,6	1,7
400 MHz	8,3	2,5
430 MHz	8,6	2,6
800 MHz	11,9	3,6
1000 MHz	13,4	4,1
1296 MHz	15,4	4,7
2400 MHz	21,8	6,6
3000 MHz	24,6	7,5
4000 MHz	29,1	8,8
5000 MHz	33,1	10,0
6000 MHz	36,9	11,2
7000 MHz	40,7	12,4
8000 MHz	44,2	13,4
9000 MHz	47,5	14,4
10.000 MHz	50,7	15,4

ELECTRICAL DATA

Impedance @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:	87%
Screening Efficiency (SA)	100-2000 MHz >105 dB
Inner conductor resistance:	3,6 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:	10000 WATT
Structural Return Loss:	0,3-600 MHz >30 dB 600-1200 MHz >25 dB 1200-2000 MHz >20 dB

POWER HANDLING (40°C/104°F)

FREQUENCY	MAX P.	FREQUENCY	MAX P.
1,8 MHz	5581 W	430 MHz	543 W
3,5 MHz	4583 W	800 MHz	392 W
7 MHz	3861 W	1000 MHz	348 W
10 MHz	3447 W	1296 MHz	302 W
14 MHz	3013 W	2400 MHz	215 W
21 MHz	2528 W	3000 MHz	190 W
28 MHz	2214 W	4000 MHz	161 W
50 MHz	1656 W	5000 MHz	142 W
100 MHz	1152 W	6000 MHz	127 W
144 MHz	956 W	7000 MHz	116 W
200 MHz	808 W	8000 MHz	106 W
400 MHz	561 W	10.000 MHz	91 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: MP00103