

M&P

# Hyperflex 13

*.500"*



**J A C K E T :**  
UV-resistant black PVC  
overall Ø 12,7mm ± 0,15  
(0.500 inches ± 0.0059)

## REACTIVE BRAID :

75% 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 9,9 mm ± 0,05 (0.39 inch. ± 0.0019)

## INNER CONDUCTOR :

37x0,56mm copper wires - overall Ø 3,8 mm ± 0,15 (37x0.022 inches - overall Ø 0.149 inches ± 0.0059)

## ATTENUATION (20°C /68°F)

FREQUENCY	dB/100m	dB/100ft
1,8 MHz	0,5	0,1
3,5 MHz	0,6	0,2
7 MHz	0,8	0,2
10 MHz	1,0	0,3
14 MHz	1,1	0,3
21 MHz	1,3	0,4
28 MHz	1,5	0,4
50 MHz	2,0	0,6
100 MHz	2,8	0,8
144 MHz	3,6	1,1
200 MHz	4,2	1,3
400 MHz	6,1	1,8
430 MHz	6,4	1,9
800 MHz	9,0	2,7
1000 MHz	10,1	3,0
1296 MHz	11,7	3,5
2400 MHz	16,6	5,0
3000 MHz	18,9	5,7
4000 MHz	22,4	6,8
5000 MHz	25,6	7,8
6000 MHz	28,7	8,7
7000 MHz	31,7	9,6
8000 MHz	34,5	10,5
9000 MHz	37,5	11,4
10.000 MHz	40,5	12,3
12.000 MHz	46,0	14,0

## SRL

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	14681 W	430 MHz	1435 W
3,5 MHz	12650 W	800 MHz	1022 W
7 MHz	9880 W	1000 MHz	907 W
10 MHz	8321 W	1296 MHz	786 W
14 MHz	7130 W	2400 MHz	552 W
21 MHz	5732 W	3000 MHz	487 W
28 MHz	4962 W	4000 MHz	410 W
50 MHz	3873 W	5000 MHz	358 W
100 MHz	2795 W	6000 MHz	320 W
144 MHz	2396 W	8000 MHz	266 W
200 MHz	2150 W	10.000 MHz	227 W
400 MHz	1486 W	12.000 MHz	200 W

## ELECTRICAL DATA

Impedence @200Mhz:	50 Ohm ± 3
Minimum bending radius:	{ up to 15 bends: 127mm (5.0 in) single bend (choke): 80mm (3.1 in)
Temperature:	-40°C to +60°C (-40°F to +140°F)
Capacitance:	75 pF/m ± 2 (22.9 pF/ft ± 2)
Velocity ratio:	86%
Screening Efficiency (SA)	100-2000 MHz >105 dB
Screening Class:	A++
Inner conductor resistance:	2 Ohm/Km (0.6 Ohm/1000ft)
Outer conductor resistance:	11 Ohm/Km (3.0 Ohm/1000ft)
Tension test (spark test):	8 kV
Net weight (100m/100ft):	17,5 Kg (11.6 lb)
Maximum peak power:	20.000 WATT
Connectors:	UHF (PL), N, 7/16

\*DUE TO THE DIMENSIONAL PARAMETERS OF THIS CABLE THE FREQUENCY OF 2500 MHz +/- 15 MHz IS NOT USABLE.

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 (EN50575:2014 - DoP number: MP00109)