



M&P

**HyperFlex 5** *1.212"*

UV resistant black PVC jacket.

**PVC Ø 5,4 mm ±0,15**  
**(0.212 inches ± 0.0059)**

High resistance copper screen (Cu) made by means of **24 spools** braiding machines. (50% more crossovers if compared to traditional 16 spools machines.) This braid is **HIGHLY EFFECTIVE AGAINST IMPULSIVE NOISES.**  
**SCREENING PERCENTAGE: 88% 120 wires**



High pressure physical injection foamed polyethylene.  
**TRIPLE LAYER DIELECTRIC**  
**FPE Ø 3,7 mm ± 0,05**  
**(0.145 inches ± 0.05)**

The copper foil has an applied PE-coating, placed in order to prevent foil cracking due to short radius bends.  
**SCREENING PERCENTAGE 100%**  
**CU-POL**

**ATTENUATION at 20°C/68°F**

FREQUENCY	dB/100m	dB/100ft
1,8 MHz	1,48	0,45
3,5 MHz	1,91	0,58
7,0 MHz	2,33	0,71
10 MHz	2,63	0,80
14 MHz	3,04	0,93
21 MHz	3,64	1,11
28 MHz	4,16	1,27
50 MHz	5,58	1,70
100 MHz	8,02	2,44
144 MHz	9,66	2,94
200 MHz	11,44	3,49
400 MHz	16,37	4,99
430 MHz	17,0	5,18
800 MHz	23,48	7,16
1000 MHz	26,46	8,07
1296 MHz	30,5	9,30
2400 MHz	42,58	12,98
3000 MHz	48,1	14,66
4000 MHz	56,95	17,36
5000 MHz	65,29	19,90
6000 MHz	72,92	22,23

Inner conductor made of 19x0,29 stranded geometric and concentric copper wires. Purity 99,99% annealed.  
(annealed = thermal softening process)  
**Cu 19x0,29 mm - Ø 1,4 mm ± 0,15**  
**(19x0.011 inches - 0.055 inches ± 0.0059)**

**SRL**

0,3-600 MHz	>28 dB
600-1200 MHz	>25 dB
1200-2000 MHz	>22 dB

**ELECTRICAL DATA**

Impedance @ 200MHz :	50 Ohm ± 3
Minimum bending radius:	
Multiple bends/single bend	50/25 mm (1.97/0.98 in)
Temperature:	-45°C to + 70°C (-49°F to +158°F)
Capacitance:	74 pF/m ± 2 (22.6 pF/ft ± 2)
Velocity ratio:	87 %
Screening efficiency:	
100-2000 MHz	>105 dB
Class	A++
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
Weight (100m/100ft):	4,2 Kg (9.25 lb)
Maximum peak power:	2900 WATT
Connectors:	C.N.HF5M-S ; C.BNC.AC5M-S ; C.UHF.AC5M-S

**POWER HANDLING (at 40°C/104°F)**

FREQUENCY	MAXP	FREQUENCY	MAXP
1,8 MHz	1274 W	400 MHz	115 W
3,5 MHz	987 W	430 MHz	111 W
7,0 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		



Given a power fed to the X value (any value expressed in Watts), the actual power output of the cable is shown in the table in the form of remaining percentage. (for example, if we use a cable such as M&P-HYPERFLEX 5, entering 1000 Watts over a length of 35m, at a frequency of 144 MHz, there remains 45,8 % of 1000). **For maximum applicable power, see the Power Handling of the cable concerned.** From these values, have already been deducted the SRL values, typical of each one of our models, for the respective frequencies.

**REMEMBER: Make sure to match the line accurately!**

		<b>M&amp;P-HYPERFLEX 5 /.212"</b>													
		length in meters													
		5	10	15	20	25	35	50	75	100	130	160	200	300	
Frequencies (MHz)	3,5	97,7	95,6	93,5	91,5	89,5	85,6	80,2	71,8	64,3	56,4	49,4	41,4	26,6	Useful signal output (residual power %)
	7	97,3	94,7	92,2	89,7	87,3	82,8	76,4	66,8	58,4	49,7	42,3	34,1	19,9	
	14	96,5	93,1	89,9	86,8	83,8	78,2	70,4	59,1	49,6	40,2	32,5	24,6	12,1	
	28	95,2	90,8	86,5	82,5	78,6	71,4	61,8	48,7	38,3	28,7	21,5	14,6	5,5	
	50	93,7	87,8	82,4	77,2	72,4	63,7	52,5	38,1	27,6	18,7	12,7	7,6		
	144	89,4	80,0	71,5	64,0	57,2	45,8	32,8	18,8	10,7	5,4				
	430	82,1	67,4	55,4	45,6	37,4	25,3	14,0	5,2						
	1200	69,8	48,9	34,2	23,9	16,6	7,9								
	2400	59,7	35,9	21,4	12,5	7,0									
	3000	55,9	31,5	17,4	9,3	4,7									
	4000	48,7	23,8	10,8	4,1										
	5000	40,8	15,9	4,2											
6000	33,2	8,7													

### M&P-HYPERFLEX 5 /.212" (Power Handling/Temperature)

		Temperature C° / F°										
		-10 / 14	-5 / 23	0 / 32	10 / 50	20 / 68	30 / 86	40 / 104	50 / 122	60 / 140	70 / 158	
Frequencies / Frequenze (MHz)	1,8	1850	1850	1850	1732	1595	1432	1274	1086	899	713	WATT
	3,5	1528	1476	1433	1342	1236	1109	987	842	697	553	
	7	1252	1210	1175	1100	1013	909	809	690	571	453	
	10	1109	1072	1041	975	897	806	717	611	506	401	
	14	960	928	900	843	776	697	620	529	438	347	
	21	802	775	752	704	648	582	518	442	366	290	
	28	701	678	658	616	567	509	453	387	320	254	
	50	523	505	491	459	423	380	338	288	238	189	
	100	364	352	341	320	294	264	235	200	166	132	
	144	302	292	283	265	244	219	195	166	138	109	
	200	255	247	239	224	206	185	165	141	116	92	
	400	178	172	167	157	144	129	115	98	81	64	
	430	172	166	161	151	139	125	111	95	78	62	
	800	124	120	117	109	101	90	80	68	57	45	
	1000	110	107	103	97	89	80	71	61	50	40	
	1296	96	92	90	84	77	69	62	53	44	35	
	2400	69	66	64	60	55	50	44	38	31	25	
3000	61	59	57	53	49	44	39	33	28	22		
4000	51	50	48	45	41	37	33	28	23	19		
5000	45	43	42	39	36	32	29	25	20	16		
6000	40	39	38	35	32	29	26	22	18	14		