

M&P Extraflex BURY 1.400"



J A C K E T :
UV shielded polyethylene
for direct burial and outdoor use
overall Ø 10,3mm ± 0,15
(0.405 inches ± 0.0059)

R E A C T I V E B R A I D :
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

*To prevent braid oxidation,
we apply a Petrol Jelly layer
adding waterproofing protection.

F O I L : 100% SCREENING
First screen made of copper
with an applied PE-layer: prevents
cracking due to short radius bends



D I E L E C T R I C :
High pressure physical injection
foamed polyethylene
T R I P L E L A Y E R
overall Ø 7,3 mm ± 0,05 (0.287 inch. ± 0.0019)

I N N E R C O N D U C T O R :
19x0,59mm copper wires - overall Ø 2,9 mm ± 0,15
(19x0.023 inches - overall Ø 0.114 inches ± 0.0059)

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 ratio:	87%
Screening Efficiency (SA)	100-2000 MHz >105 dB
Screening Class:	A++
Inner conductor resistance:	3,6 Ohm/Km (1.1 Ohm/1000ft)
Outer conductor resistance:	12 Ohm/Km (3.7 Ohm/1000ft)
Tension test (spark test):	8 kV
Net weight (100m/100ft):	10.8 Kg (7.1 lb)
Maximum peak power:	13.000 WATT
Connectors:	UHF (PL), N, BNC, SMA, TNC, 7/16

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	9927 W	430 MHz	808 W
3,5 MHz	7721 W	800 MHz	581 W
7 MHz	5990 W	1000 MHz	516 W
10 MHz	5186 W	1296 MHz	449 W
14 MHz	4483 W	2400 MHz	319 W
21 MHz	3777 W	3000 MHz	282 W
28 MHz	3357 W	4000 MHz	239 W
50 MHz	2518 W	5000 MHz	210 W
100 MHz	1759 W	6000 MHz	188 W
144 MHz	1460 W	7000 MHz	171 W
200 MHz	1226 W	8000 MHz	157 W
400 MHz	837 W	10.000 MHz	137 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 (EN50575:2014 - DoP number: MP0124)

WHY CHOOSE THIS CABLE

- The only coax that can be use for outdoor use, direct burial, tight bendings and rotor antennas simultaneously.
- Infact, it combine a great flexibility (thanks to 19 wires on the conductor) to a resistant tearproof sheath.
- We have applied a petrol jelly layer that helps to prevent oxidation and makes it waterproof.
- Best performances and attenuation for a 10mm stranded core coaxial cable!

FREQUENCY SUGGESTIONS

HF (from 3MHz to 30Mhz)

example at 14 MHz

EXCELLENT up to 100m of cable length

GOOD up to 160m of cable length

Choose Ø 12,7mm cable above 160m

example 28 MHz

EXCELLENT up to 75m of cable length

GOOD up to 120m of cable length

Choose Ø 12,7mm cable above 120m

VHF (from 30MHz to 300Mhz)

example at 50 Mhz

EXCELLENT up to 60m of cable length

GOOD up to 80m of cable length

Choose Ø 12,7mm cable above 80m

example at 144 Mhz

EXCELLENT up to 35m of cable length

GOOD up to 60m of cable length

Choose Ø 12,7mm cable above 60m

UHF (from 300MHz to 3000Mhz)

example at 430 MHz

EXCELLENT up to 20m of cable length

GOOD up to 30m of cable length

Choose Ø 12,7mm cable above 28m

example at 1296 MHz

EXCELLENT up to 12m of cable length

GOOD up to 17m of cable length

Choose Ø 12,7mm cable above 17m

example at 2400 MHz

EXCELLENT up to 8m of cable length

GOOD up to 10m of cable length

Choose Ø 12,7mm cable above 12m

*data valuable for Power Application (trasmission)

**you can find Watt / MAX POWER in the datasheet above.



RESIDUAL POWER PERCENTAGE (Cable Run Efficiency)

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-EXTRAFLEX BURY, entering 1000 Watts over a length of 35m, at a frequency of 144 MHz, there remains 68% 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!**

		M&P-EXTRAFLEX BURY / .400"													
feet		16,4	32,8	49,2	65,6	82	114,8	164	246	328	426,5	524,9	656,2	984,2	
meters		5	10	15	20	25	35	50	75	100	130	160	200	300	
Wave length	MHz	Useful signal output (residual power %)													
85.71 m	3,5	98,9	97,8	96,8	95,8	94,9	92,9	90,1	85,5	81,2	76,3	71,7	66,0	53,6	
42.85 m	7	98,6	97,3	96,0	94,7	93,4	91,0	87,4	81,7	76,5	70,6	65,1	58,5	44,8	
21.42 m	14	98,1	96,4	94,7	93,0	91,4	88,2	83,6	76,4	69,9	62,8	56,4	48,9	34,2	
10.71 m	28	97,5	95,2	93,0	90,8	88,7	84,5	78,7	69,8	62,0	53,7	46,5	38,4	23,8	
6 m	50	96,8	93,7	90,8	88,0	85,2	80,0	72,7	62,0	52,9	43,7	36,1	28,0	14,8	
2 m	144	94,6	89,5	84,7	80,2	75,9	68,0	57,7	43,9	33,3	24,0	17,2	11,1	3,6	
69 cm	430	90,4	81,9	74,1	67,1	60,8	49,8	37,0	22,5	13,6	7,5	4,0			
23.1 cm	1296	83,0	69,4	57,9	48,4	40,4	28,1	16,2	6,3						
12.5 cm	2400	76,2	58,9	45,5	35,1	26,9	15,7	6,5							
10 cm	3000	73,3	54,7	40,7	30,1	22,2	11,7	3,9							
7.5 cm	4000	68,4	48,0	33,4	23,0	15,6	6,4								
6 cm	5000	62,0	40,4	25,6	15,5	8,6									
5 cm	6000	55,3	32,7	17,9	8,2										
3.75 cm	8000	50,1	26,1	11,7	3,1										
3 cm	10.000	45,8	21,1	7,4											
2.5 cm	12.000	41,8	16,8	3,9											

M&P-EXTRAFLEX BURY / .400" Power Handling/Temperature (in Continuous Carrier)

		Temperature C° / F°										
Wave length	MHz	-10 / 14	-5 / 23	0 / 32	10 / 50	20 / 68	30 / 86	40 / 104	50 / 122	60 / 140	70 / 158	
166.66 m	1,8	12000	12000	12000	11980	11178	10710	9927	8468	7008	5559	
85.71 m	3,5	11720	11450	11211	10500	9667	8678	7721	6586	5451	4324	
42.85 m	7	9273	8962	8698	8147	7500	6733	5990	5110	4229	3355	
30 m	10	8027	7758	7530	7053	6492	5829	5186	4423	3661	2904	
21.42 m	14	6940	6707	6509	6097	5613	5039	4483	3824	3165	2511	
14.28 m	21	5846	5650	5484	5136	4728	4245	3777	3221	2666	2115	
10.71 m	28	5196	5022	4874	4565	4203	3773	3357	2863	2370	1880	
6 m	50	3897	3766	3656	3424	3152	2830	2518	2148	1777	1410	
3 m	100	2723	2632	2554	2392	2203	1977	1759	1501	1242	985	
2.08 m	144	2260	2184	2120	1985	1828	1641	1460	1245	1031	818	
1.5 m	200	1897	1833	1779	1667	1534	1378	1226	1045	865	686	
75 cm	400	1296	1252	1216	1139	1048	941	837	714	591	469	
69 cm	430	1251	1209	1173	1099	1012	908	808	689	570	452	
37.5 cm	800	899	869	844	790	727	653	581	496	410	325	
30 cm	1000	799	772	749	702	646	580	516	440	364	289	
23.1 cm	1296	694	671	651	610	562	504	449	383	317	251	
12.5 cm	2400	493	477	463	434	399	358	319	272	225	179	
10 cm	3000	436	422	409	383	353	317	282	240	199	158	
7.5 cm	4000	370	357	347	325	299	268	239	204	169	134	
6 cm	5000	325	314	305	286	263	236	210	179	148	118	
5 cm	6000	291	281	273	256	235	211	188	160	133	105	
4.2 cm	7000	264	255	248	232	214	192	171	146	121	96	
3.75 cm	8000	243	235	228	214	197	177	157	134	111	88	
3 cm	10.000	212	205	199	186	172	154	137	117	97	77	

Do not use the cable as power supply for both direct current and 50-60 HZ mains

GENERIC COAXIAL CABLE APPLICATIONS*

- Aircraft communications
 - Amateur Radio
 - Antenna
 - Antenna Analyzer
 - Beacons Base Station
 - Broadcast Radios
 - CB Radio (Citizen Band)
 - CB Radio Scanner
 - Dummy Load
 - Land Mobile Communications
 - Maritime Mobile Communications
 - Military Communications
 - Microwave Relay System
 - Moon Bouncing Transmission EME
 - Mobile Transmission Applications (Car, Van, Caravans, Trucks, etc.)
 - Motorhome
 - Network Analyzer
 - Portable Handheld Radio (Walkie Talkie - PMR antenna extension)
 - Radar
 - Radio Astronomy and Telescope
 - Radio Receivers
 - Router connections
 - Satellite Radio
 - Scanner
 - Switch connections
 - SWR Meter connections
 - Transceiver
 - Tuner connections
 - Weather Radio Antenna Extension
- *See "Frequency Suggestions" for a correct correlation

PRE-ASSEMBLED COAX JUMPERS

YOU'VE NO TIME FOR ASSEMBLING THE CONNECTORS YOURSELF?
GRAB OUR FACTORY MADE COAX JUMPERS "LAB TESTED" ONE BY ONE!
LAB CERTIFICATE ENCLOSED IN EACH PACKAGING.



USEFUL ACCESSORIES



SPECIAL COAX SCISSORS



ADHESIVE REUSABLE
VELCRO



CABLE PULLING LUBRICANT



M&P T-SHIRT



UNWINDERS FOR COILS AND BOBBINS



CONNECTORS for 10,3mm (.400") Coaxial Cables

EVOlution



“UHF” (PL-259) Male Solder

Watch the Assembly

Video:

<https://youtu.be/35SWUllkVjw>

Code:

CO.UHF.10M-S EVO



“UHF” (PL-259) Female Solder

Watch the Assembly

Video:

https://youtu.be/vVuTp_wYSio

Code:

C.UHF.BROAD50F-S



“UHF” Male Solder - 90° Angle

Watch the Assembly

Video:

<https://youtu.be/qQoZT4TqF4w>

Code:

C.UHF.BROAD50-M90



“PL259” Male Solder (standard)

Watch the Assembly

Video:

https://youtu.be/DWIKgl62M_8

Code:

C.BROAD.PL259



“N” Male Solder

Watch the Assembly

Video:

<https://youtu.be/c6Z8jHE3gC4>

Code:

CO.N.10M-S



“N” Female Solder

Watch the Assembly

Video:

<https://youtu.be/P18ViE8Exhk>

Code:

C.N.BROAD50-FS



“N” Male Solderless

Watch the Assembly

Video:

<https://youtu.be/SexpyifQn6Y>

Code:

C.N.BROAD50-SL



“N” Female Solderless

Watch the Assembly

Video:

<https://youtu.be/RJdiLYtpBk>

Code:

C.N.BROAD50-FSL



“N” Male Solder - 90° Angle

Watch the Assembly

Video:

<https://youtu.be/8NYoa-v7h74>

Code:

C.N.BROAD50-M90

CONNECTORS for 10,3mm (.400") Coaxial Cables



"N" Male Crimp

Watch the Assembly

Video:

<https://youtu.be/sggjEZKue8k>

Code:

C.N.BROAD50-MCR



"N" Female Crimp

Watch the Assembly

Video:

<https://youtu.be/l9jgcDznJlo>

Code:

C.N.BROAD50-FCR



"BNC" Male Solder

Watch the Assembly

Video:

<https://youtu.be/tsaUjVnlPkl>

Code:

C.BNC.BROAD50-M



"BNC" Female Solder

Watch the Assembly

Video:

<https://youtu.be/46SLt5mODjg>

Code:

C.BNC.BROAD50-FS



"TNC" Male Solder

Watch the Assembly

Video:

<https://youtu.be/A-ayPwR-epY>

Code:

C.TNC.BROAD50-MS



"TNC" Male Crimp

Watch the Assembly

Video:

<https://youtu.be/X1QgKRtiesk>

Code:

C.TNC.BROAD50-CR



"SMA" Male Solder

Watch the Assembly

Video:

https://youtu.be/whXmqoRqj_o

Code:

C.SMA.UF10M-S



7/16

Watch the Assembly

Video:

<https://youtu.be/CK1zZ7Agi4U>

Code:

C.7-16.10M-S

HEAT SUPPRESSOR

Pairing to our "N" or "UHF" connectors, the Heat Suppressor represents an extension of the operational life of your valuable cables and a greater homogeneity of their performance in hot environments.

The benefits will also be more evident for those who use high power linear amplifiers for prolonged periods during contests.

Cooling and stabilizing the cable, could be the ace in your sleeve!

For other connectors and adapters, visit www.messi.it or contact us at web@messi.it

