

Quick cross reference table

Between ABR industries and Messi & Paoloni equivalent products

ABR Industries vs. **Messi & Paoloni**

LMR®195 Type <i>Source ABR Ind. Website</i>		Vs.	M&P-Airborne5 <i>Source M&P website</i>	
declared				
Att. dB/100ft /Power Handling kW				
10 MHz	1.1dB / 1.43kW		1.05dB / 0.54kW*	10 MHz
30 MHz	2.0dB / 0.89kW		1.68dB / 0.35kW*	28 MHz
50 MHz	2.5dB / 0.68kW		2.16dB / 0.27kW*	50 MHz
150 MHz	4.4dB / 0.39kW		3.38dB / 0.17kW*	144 MHz
450 MHz	7.8dB / 0.22kW		5.79dB / 0.10kW*	430 MHz
900 MHz	11.1dB / 0.16kW		9.11dB / 0.06kW*	1000 MHz

Core 0.037"	Solid Bare copper	Solid Bare copper	Core 0.044"
Dielectric	Gas Inj Foam Pe	Gas injected Foam Pe triple layer	Dielectric
Foil	Aluminum 100%	Aluminum 100%	Foil
Braid	Tin clad Copper 95% 16 spools braiding Tin over Aluminum= galvanic c.	Al-Mg 82% 24 spools braiding (50% more crossovers) Aluminum over Aluminum= correct matching	Braid
Jacket	UV resistant Polyethylene (Pe)	UV resistant Polyethylene (Pe)	Jacket
	Weather proof	Weather proof and buriable	
O.D.	.195"	.197"	O.D.
	N/A Velocity ratio	85% Velocity ratio	
SA	Screening Atten. > 90dB	Screening Atten. >105dB	SA
	ROHS compliant:Yes	ROHS compliant:Yes	

Why should you chose this M&P Cable?

EXTREMELY LIGHTWEIGHT, Sturdy and buriable, DOUBLE SHIELDED, PERFORMANT!

Aluminum braid over triple layer foil, (Aluminum-Polyester-Aluminum) = No Galvanic current effect

Amazing lightness and sturdiness: every layer of the cable has been optimized to such a result

Best in its class (size wise) performances: (excellent attenuations at low freq., and screening efficiency)

top class performances at high frequencies

Improved Foam Pe Structure and resistance to multiple bends (under reasonable angles)

Improved Foam Pe resistance to moisture (**triple layer dielectric**) **matched with M&P connectors**

Excellent velocity ratio (85%) and Screening efficiency (SA>105 dB)

Enhanced structure in the braiding process (50% more Crossovers), **giving to the braid an active role in the resistance to torsions, typical of cables linked to rotor operated antennas**

Lightweight and well balanced: we have reduced the overall weight where possible and re-engineered each layer in order to add performance and resistance!

(*):The power handling values in M&P cables are for RTTY transmissions. For SSB you can double the values.
Never exceed the indicated peak power value!

Best Choice for Dxers, Emergency flooded areas operations, Mountain transmission
M&P-Airborne 5 can be an excellent replacement of: LMR®195 Type and RG 58C/U

Quick cross reference table

Between ABR industries and Messi & Paoloni equivalent products

ABR Industries		Messi & Paoloni	
LMR®240UF Type	Vs.	M&P-HYPERFLEX 5	
Source ABR Ind. Website		Source M&P website	
declared Att. dB/100ft /Power Handling kW			
10 MHz	0.9dB / 2.16kW	0.80dB / 0.72kW*	10 MHz
30 MHz	1.6dB / 1.24kW	1.27dB / 0.45kW*	28 MHz
50 MHz	2.1dB / 0.96kW	1.70dB / 0.34kW*	50 MHz
150 MHz	3.6dB / 0.55kW	2.94dB / 0.20kW*	144 MHz
450 MHz	6.3dB / 0.31kW	5.18dB / 0.11kW*	430 MHz
900 MHz	9.1dB / 0.22kW	8.07dB / 0.07kW*	1000 MHz

Core .056"	19 stranded BC	19 stranded BC	Core .055"
Dielectric	Gas Inj Foam Pe	Gas injected Foam Pe triple layer	Dielectric
Foil	Aluminum 100%	Bare Copper+Pe 100%	Foil
Braid	Tin clad Copper 95% 16 spools braiding Tin over Aluminum= galvanic c.	Bare Copper 88% 24 spools braiding (50% more crossovers) Copper over copper= correct matching	Braid
Jacket	UV resistant Non Migr. PVC	UV resistant Non Migr. PVC	Jacket
O.D.	.240" (same size of RG8X)	.212" (a tad bigger than Rg 58)	O.D.
	82%-84% Velocity ratio	87% Velocity ratio	
SA	N/A	Screening Atten. >105dB	SA
	ROHS compliant:Yes	ROHS compliant:Yes	

Why should you chose this M&P Cable?

LIGHTWEIGHT, COMPACT, EXTREMELY FLEXIBLE, DOUBLE SHIELDED, PERFORMANT!

Bare Copper braid over copper foil = No Galvanic current effect
Amazing flexibility: every layer of the cable has been optimized to such a result
excellent performances at low frequencies (attenuations and power handling)
top class performances at high frequencies in the stranded core class of cables
Improved Foam Pe Structure and resistance to multiple bends (under reasonable angles)
Improved Foam Pe resistance to moisture (triple layer dielectric) matched with M&P connectors
Outstanding velocity ratio (87%) and Screening efficiency (SA>105 dB)
Enhanced structure in the braiding process (50% more Crossovers), giving to the braid an active role in the resistance to torsions, typical of cables linked to rotor operated antennas
Engineered to give the best attenuation performance and flexibility in a compact size cable, it's a tad bigger than RG 58 C/U and a tad smaller than RG8X and LMR®240UF, with exceptional performances.
(*) :The power handling values in M&P cables are for RTTY transmissions. For SSB you can double the values. Never exceed the indicated peak power value!

M&P-HYPERFLEX 5 can be an excellent replacement of: LMR®240UF Type RG 58 C/U
Best choice for Jumpers the new M&P-HYPERFLEX 5 Crystal RG8X

Quick cross reference table

Between ABR industries and Messi & Paoloni equivalent products

ABR Industries		Messi & Paoloni	
THE OFFICIAL WRTC 2018 CABLE IN GERMANY			
LMR®240UF Type	Vs.	M&P-Ultraflex 7	
Source ABR Ind. Website		Source M&P website	
declared			
Att. dB/100ft /Power Handling kW			
10 MHz	0.9dB / 2.16kW	0.60dB / 2.28kW*	10 MHz
30 MHz	1.6dB / 1.24kW	0.91dB / 1.45kW*	28 MHz
50 MHz	2.1dB / 0.96kW	1.22dB / 1.08kW*	50 MHz
150 MHz	3.6dB / 0.55kW	2.10dB / 0.63kW*	144 MHz
450 MHz	6.3dB / 0.31kW	3.75dB / 0.35kW*	430 MHz
900 MHz	9.1dB / 0.22kW	5.88dB / 0.23kW*	1000 MHz

Core .056"	19 stranded BC	19 stranded BC	Core .075"
Dielectric	Gas Inj Foam Pe	Gas injected Foam Pe triple layer	Dielectric
Foil	Aluminum 100%	Bare Copper+Pe 100%	Foil
Braid	Tin clad Copper 95% 16 spools braiding Tin over Aluminum= galvanic c.	Bare Copper 83% 24 spools braiding (50% more crossovers) Copper over copper= correct matching	Braid
Jacket	UV resistant Non Migr. PVC	UV resistant Non Migr. PVC	Jacket
O.D.	.240" (same size RG8X)	.287"	O.D.
	82%-84% Velocity ratio	83% Velocity ratio	
SA	N/A	Screening Atten. >105dB	SA
	ROHS compliant:Yes	ROHS compliant:Yes	

Why should you chose this M&P Cable?

LIGHTWEIGHT, COMPACT, EXTREMELY FLEXIBLE, DOUBLE SHIELDED, unparalleled PERFORMANCE!

Bare Copper braid over copper foil = No Galvanic current effect

Amazing flexibility: every layer of the cable has been optimized to such a result

excellent performances at low frequencies (attenuations and power handling)

top class performances at high frequencies in the stranded core class of cables, (for EME)

Improved Foam Pe Structure and resistance to multiple bends (under reasonable angles)

Improved Foam Pe resistance to moisture (**triple layer dielectric**) **matched with M&P connectors**

good velocity ratio (83%) and Screening efficiency (SA>105 dB)

Enhanced structure in the braiding process (50% more Crossovers), **giving to the braid an active role in the resistance to torsions, typical of cables linked to rotor operated antennas**

Lightweight and well balanced: we have reduced the overall weight where possible and re-engineered each layer in order to add performance and resistance!

(*):The power handling values in M&P cables are for RTTY transmissions. For SSB you can double the values.
Never exceed the indicated peak power value!

M&P-Ultraflex 7 can be an excellent replacement of: LMR®240UF Type

RG 213/U

Best choice for Jumpers the new M&P-Ultraflex7 Crystal

RG 8 and RG8X

Quick cross reference table

Between Times Microwave and Messi & Paoloni equivalent products

Times Microwave

Messi & Paoloni

THE OFFICIAL WRTC 2018 CABLE IN GERMANY

LMR®-300-UF

Vs.

M&P-Ultraflex 7

Source Times Microwave Website

Source M&P website

**declared
Att. dB/100ft /Power Handling kW**

30 MHz	1.3dB / 1.74kW	0.91dB / 1.45kW*	28 MHz
50 MHz	1.6dB / 1.35kW	1.22dB / 1.08kW*	50 MHz
150 MHz	2.9dB / 0.77kW	2.10dB / 0.63kW*	144 MHz
220 MHz	3.5dB / 0.63kW	2.50dB / 0.53kW*	200 MHz
450 MHz	5.1dB / 0.44kW	3.75dB / 0.35kW*	430 MHz
900 MHz	7.3dB / 0.30kW	5.88dB / 0.23kW*	1000 MHz

Core 0.070"	stranded BC (Num.wires N/A)	19 stranded BC	Core 0.075"
Dielectric	Gas Inj Foam Pe	Gas injected Foam Pe triple layer	Dielectric
Foil	Aluminum 100%	Bare Copper+Pe 100%	Foil
Braid	Tin clad Copper (% N/A) 16 spools braiding Tin over Aluminum= galvanic c.	Bare Copper 83% 24 spools braiding (50% more crossovers) Copper over copper= correct matching	Braid
Jacket	Black Thermoplastic Elastomer	UV resistant Non Migr. PVC	Jacket
O.D.	.300"	.287"	O.D.
	85% Velocity ratio	83% Velocity ratio	
SA	>90	Screening Atten. >105dB	SA
	N/A	ROHS compliant:Yes	

Why should you chose this M&P Cable?

LIGHTWEIGHT, COMPACT, EXTREMELY FLEXIBLE, DOUBLE SHIELDED, unparalleled PERFORMANCE!

Bare Copper braid over copper foil = No Galvanic current effect

Amazing flexibility: every layer of the cable has been optimized to such a result

excellent performances at low frequencies (attenuations and power handling)

top class performances at high frequencies in the stranded core class of cables, (for EME)

Improved Foam Pe Structure and resistance to multiple bends (under reasonable angles)

Improved Foam Pe resistance to moisture (**triple layer dielectric**) **matched with M&P connectors**

good velocity ratio (83%) and Screening efficiency (SA>105 dB)

Enhanced structure in the braiding process (50% more Crossovers), **giving to the braid an active role in the resistance to torsions, typical of cables linked to rotor operated antennas**

Lightweight and well balanced: we have reduced the overall weight where possible and re-engineered each layer in order to add performance and resistance!

(*):The power handling values in M&P cables are for RTTY transmissions. For SSB you can double the values.
Never exceed the indicated peak power value!

M&P-Ultraflex 7 can be an excellent replacement of: LMR®240UF Type

RG 213/U

Best choice for Jumpers the new M&P-Ultraflex7 Crystal

RG 8 and RG8X

Quick cross reference table

Between ABR industries and Messi & Paoloni equivalent products

ABR Industries		Messi & Paoloni	
THE OFFICIAL WRTC 2018 CABLE IN GERMANY			
RG 213/U Mil-Spec		M&P-Ultraflex 7	
Source ABR Ind. Website		Source M&P website	
declared			
Att. dB/100ft /Power Handling kW			
10 MHz	0.6dB / 3.43kW	0.60dB / 2.28kW*	10 MHz
30 MHz	1.0dB / 1.95kW	0.91dB / 1.45kW*	28 MHz
50 MHz	1.4dB / 1.49kW	1.22dB / 1.08kW*	50 MHz
150 MHz	2.4dB / 0.83kW	2.10dB / 0.63kW*	144 MHz
450 MHz	4.5dB / 0.45kW	3.75dB / 0.35kW*	430 MHz
900 MHz	N/A	5.88dB / 0.23kW*	1000 MHz
Core 13ga	7x21 AWG stranded BC	19 stranded BC	Core 13ga
Dielectric	Solid Polyethylene (Pe)	Gas injected Foam Pe triple layer	Dielectric
Foil	none	Bare Copper+Pe 100%	Foil
Braid	Bare Copper 97% 16 spools braiding	Bare Copper 83% 24 spools braiding (50% more crossovers) Copper over copper= correct matching	Braid
Jacket	UV resistant Non Migr. PVC	UV resistant Non Migr. PVC	Jacket
O.D.	.405"	.287"	O.D.
	66% Velocity ratio	83% Velocity ratio	
SA	N/A (normally can be 40-55 dB)	Screening Atten. >105dB	SA
	ROHS compliant:Yes	ROHS compliant:Yes	
Why should you chose this M&P Cable?			

LIGHTWEIGHT, COMPACT, EXTREMELY FLEXIBLE, DOUBLE SHIELDED, PERFORMANT!

Amazing flexibility and lightweight: every layer of the cable has been optimized to such a result
excellent performances at low frequencies (attenuations and power handling)

top class performances at high frequencies in the stranded core class of cables, (for EME)

Improved Foam Pe Structure and resistance to multiple bends (under reasonable angles)

Improved Foam Pe resistance to moisture (**triple layer dielectric**) **matched with M&P connectors**

Excellent velocity ratio (83%) compared to the 66% of solid Pe cables

Note: the **Screening Attenuation (SA)** of a good quality RG 213/U or RG 8 is not greater than 55 dB.
In comparison with the >105 dB (SA) of **Ultraflex 7, (double shielded)**, there is a **huge difference for a dramatic suppression of the background noise!**

Enhanced structure in the braiding process (50% more Crossovers), **giving to the braid an active role in the resistance to torsions, typical of cables linked to rotor operated antennas**

Lightweight and well balanced: re-engineering each layer and adding performance and resistance!
weight:M&P-Ultraflex7 = 4.63 lb per 100 ft instead of 10 lb of RG 213/U

(*):The power handling values in M&P cables are for RTTY transmissions. For SSB you can double the values.
Never exceed the indicated peak power value!

M&P-Ultraflex 7 can be an excellent replacement of: Rg213/U, RG8, RG8X
Best choice for Jumpers the new M&P-Ultraflex7 Crystal

Quick cross reference table

Between ABR industries and Messi & Paoloni equivalent products

ABR Industries vs. **Messi & Paoloni**

RG 213/U Mil-Spec <i>Source ABR Ind. Website</i>		Vs.	M&P-ULTRAFLEX 10 <i>Source M&P website</i>	
declared				
Att. dB/100ft /Power Handling kW				
10 MHz	0.6dB / 3.43kW		0.41dB / 5.35kW*	10 MHz
30 MHz	1.0dB / 1.95kW		0.61dB / 3.35kW*	28 MHz
50 MHz	1.4dB / 1.49kW		0.82dB / 2.51kW*	50 MHz
150 MHz	2.4dB / 0.83kW		1.44dB / 1.46kW*	144 MHz
450 MHz	4.5dB / 0.45kW		2.64dB / 0.80kW*	430 MHz
900 MHz	N/A		4.21dB / 0.51kW*	1000 MHz

Core 13ga	7x21 AWG stranded BC	7 stranded BC	Core 9ga
Dielectric	Solid Polyethylene (Pe)	Gas injected Foam Pe triple layer	Dielectric
Foil	none	Bare Copper+Pe 100%	Foil
Braid	Bare Copper 97% 16 spools braiding	Bare Copper 71% (incl. foil 171%) 24 spools braiding (50% more crossovers) Copper over copper = correct matching	Braid
Jacket	UV resistant Non Migr. PVC	UV resistant Non Migr. PVC	Jacket
O.D.	.405"	.400"	O.D.
	66% Velocity ratio	83% Velocity ratio	
SA	N/A (normally can be 40-55 dB)	Screening Atten. >105dB	SA
	ROHS compliant:Yes	ROHS compliant:Yes	

Why should you chose this M&P Cable?

- Bare copper braid over copper foil = No Galvanic current effect and 171% optical coverage
 - Amazing flexibility:** every layer of the cable has been optimized to such a result
 - excellent performances at low frequencies (attenuations and power handling)**
 - The higher the frequencies, the bigger the gap with the old technology of RG 213/U and RG 8**
 - Improved Foam Pe Structure and resistance to multiple bends (under reasonable angles)
 - Improved Foam Pe resistance to moisture (**triple layer dielectric**) **matched with M&P connectors**
 - Top class velocity ratio (83%) and Screening efficiency (SA>105 dB)**
 - Enhanced structure in the braiding process (50% more Crossovers), **giving to the braid an active role in the resistance to torsions, typical of cables linked to rotor operated antennas**
 - Lightweight and well balanced:** we have reduced the overall weight where possible and re-engineered each layer in order to add performance and resistance!
weight: M&P-Ultraflex10 = 8.73 lb per 100 ft instead of 10 lb of RG 213/U
- (*):The power handling values in M&P cables are for RTTY transmissions. For SSB you can double the values.
Never exceed the indicated peak power value!

**Ultraflex 10 and his sibling Hyperflex 10, can be excellent replacements of: Rg213/U, RG8, RG8X
And any other stranded core cable size .400" available on the international market**

Quick cross reference table

Between ABR industries and Messi & Paoloni equivalent products

ABR Industries		Messi & Paoloni	
LMR®400UF Type		M&P-Hyperflex 10	
Source ABR Ind. Website		Source M&P website	
declared			
Att. dB/100ft /Power Handling kW			
30 MHz	0.8dB / 2.77kW	0.61dB / 3.35kW*	28 MHz
50 MHz	1.1dB / 2.14kW	0.82dB / 2.51kW*	50 MHz
150 MHz	1.8dB / 1.22kW	1.45dB / 1.46kW*	144 MHz
450 MHz	3.3dB / 0.69kW	2.62dB / 0.80kW*	430 MHz
900 MHz	4.7dB / 0.36kW	4.11dB / 0.51kW*	1000 MHz

Core 10ga	19 stranded BC	19 stranded BC	Core 9ga
Dielectric	Gas Inj Foam Pe	Gas injected Foam Pe triple layer	Dielectric
Foil	Aluminum 100%	Bare Copper+Pe 100%	Foil
Braid	Tin clad Copper 96%	Copper clad Al 78%	Braid
	16 spools braiding Tin over Aluminum= galvanic c.	24 spools braiding (50% more crossovers) Copper over copper= correct matching	
Jacket	UV resistant Non Migr. PVC	UV resistant Non Migr. PVC	Jacket
O.D.	.400"	.400"	O.D.
	85% Velocity ratio	87% Velocity ratio	
SA	N/A	Screening Atten. >105dB	SA
	ROHS compliant:Yes	ROHS compliant:Yes	
Why should you chose this M&P Cable?			

Bare CCA braid over copper foil = No Galvanic current effect
Amazing flexibility: every layer of the cable has been optimized to such a result
excellent performances at low frequencies (attenuations and power handling)
top class performances at high frequencies in the stranded core class of cables, (for EME)
Improved Foam Pe Structure and resistance to multiple bends (under reasonable angles)
Improved Foam Pe resistance to moisture (triple layer dielectric) matched with M&P connectors
Top class velocity ratio (87%) and Screening efficiency (SA>105 dB)
Enhanced structure in the braiding process (50% more Crossovers), giving to the braid an active role in the resistance to torsions, typical of cables linked to rotor operated antennas
Lightweight and well balanced: we have reduced the overall weight where possible and re-engineered each layer in order to add performance and resistance!
(*):The power handling values in M&P cables are for RTTY transmissions. For SSB you can double the values. Never exceed the indicated peak power value!

**M&P-HYPERFLEX 10 can be an excellent replacement of: ABR LMR®400UF Type and LMR®400-UF TimesMW
For the ALL copper version ask for M&P-ULTRAFLEX 10**

Quick cross reference table

Between ABR industries and Messi & Paoloni equivalent products

ABR Industries

Messi & Paoloni

LMR®400 Type

Vs.

M&P-AIRBORNE 10

Source ABR Ind. Website

Source M&P website

declared
Att. dB/100ft /Power Handling kW

30 MHz	0.7dB / 3.33kW	0.59dB / 3.73kW*	28 MHz
50 MHz	0.9dB / 2.57kW	0.75dB / 2.94kW*	50 MHz
150 MHz	1.5dB / 1.47kW	1.28dB / 1.71kW*	144 MHz
450 MHz	2.7dB / 0.83kW	2.32dB / 0.94kW*	430 MHz
900 MHz	3.9dB / 0.58kW	3.60dB / 0.61kW*	1000 MHz

Core .102"	Solid BCCA Center Conductor	Solid BCCA Center Conductor	Core .109"
Dielectric	Gas Inj Foam Pe	Gas injected Foam Pe triple layer	Dielectric
Foil	Aluminum 100%	Bare Copper+Pe 100%	Foil
Braid	Tin clad Copper 95% 16 spools braiding Tin over Aluminum= galvanic c.	Copper clad Al 78% 24 spools braiding (50% more crossovers) Copper over copper= correct matching	Braid
Jacket	UV resistant Polyethylene (Pe)	UV resistant Polyethylene (Pe)	Jacket
	Weather proof	Weather proof and buriable	
Ext.size	O.D. .400" (same as RG8)	O.D. .400" (same as RG213/U)	Ext.size
	85% Velocity ratio	87% Velocity ratio	
SA	Screening Atten.>90 dB	Screening Atten. >105dB	SA
	ROHS compliant:Yes	ROHS compliant:Yes	

Why should you chose this M&P Cable?

By far the best choice for exacting Dxing teams

EXTREMELY LIGHTWEIGHT, STURDY, DOUBLE SHIELDED, BEST COMPETITION PERFORMANCE!

Bare CCA braid over copper foil = No Galvanic current effect

Amazing lightness: every layer of the cable has been optimized to such a result (up to 45% lighter)

excellent performances at low frequencies (attenuations, Screening attenuation and power handling)

top class performances at high frequencies in the SOLID core class of cables size .400"

Improved Foam Pe resistance to moisture (**triple layer dielectric**) matched with **M&P connectors**

Engineered for Outstanding velocity ratio (87%) and Screening efficiency (SA>105 dB)

Enhanced structure in the braiding process (50% more Crossovers)

BURABLE and excellent for Moon bouncing lovers (EME)

(*):The power handling values in M&P cables are for RTTY transmissions. For SSB you can double the values.

Never exceed the indicated peak power value!

AIRBORNE 10 and his sibling BroadPro50 C, can be excellent replacements of: LMR®400 Type

For the ALL copper version ask BROADPRO 50 C.

LMR®400 Times MW

Quick cross reference table

Times Microwave	Messi & Paoloni
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LMR®500-UF		Vs.	M&P-ULTRAFLEX 13	
Source Times Microwave Systems Website			Source M&P website	
declared Att. dB/100ft (100/m) / Power Handling kW				
30 MHz	0.6dB (2.1)/ 3.68kW		0.47dB (1.55)/ 4.86kW*	28 MHz
50 MHz	0.8dB (2.7)/ 2.84kW		0.61dB (2.0)/ 3.74kW*	50 MHz
150 MHz	1.5dB (4.8)/ 1.61kW		1.10dB (3.6)/ 2.36kW*	144 MHz
220 MHz	1.8dB (5.9)/ 1.32kW		1.31dB (4.3)/ 2.14kW*	200 MHz
450 MHz	2.6dB (8.5)/ 0.91kW		1.97dB (6.45)/ 1.43kW*	430 MHz
900 MHz	3.8dB (12.3)/ 0.63kW		3.14dB (10.3)/ 0.89kW*	1000 MHz
1500 MHz	5.0dB (16.3)/ 0.48kW		3.66dB (12.0)/ 0.77kW*	1296 MHz
2500 MHz	6.6dB (21.6)/ 0.36kW		5.30dB (17.4)/ 0.53kW*	2400 MHz
5800 MHz	10.6dB (34.9)/ 0.22kW		9.19dB (30.14)/ 0.30kW*	6000 MHz

core .142" (3.61 mm) stranded BC (n. wires N/A)	19 stranded BC (3.8mm)		core .149"
Dielectric	Gas Inj Foam Pe	Gas injected Foam Pe triple layer	Dielectric
Foil	Aluminum 100%	Bare Copper+Pe 100%	Foil
Braid	Tinned Copper (% N/A) 16 spools braiding Tin over Aluminum= galvanic c.	Copper clad Al 70% 24 spools braiding (50% more crossovers) Copper over copper= correct matching	Braid
Jacket	Black Thermoplastic Elastomer	UV resistant Non Migr. PVC	Jacket
O.D.	0.500" (12,7 mm)	0.500" (12,7 mm)	O.D.
	85% Velocity ratio	86% Velocity ratio	
SA	Screening Atten. >90dB	Screening Atten. >105dB	SA
	N/A	ROHS compliant:Yes	

Why should you chose this M&P Cable?

LIGHTWEIGHT, COMPACT, EXTREMELY FLEXIBLE, DOUBLE SHIELDED, PERFORMANT!

- Bare Copper Clad Al braid over copper foil = No Galvanic current effect
 - Amazing flexibility:** every layer of the cable has been optimized to such a result
 - very high performances at low frequencies (attenuations and power handling)**
 - Excellent performances at high frequencies** in the stranded core class of cables
 - Improved Foam Pe Structure and resistance to multiple bends (under reasonable angles)
 - Improved Foam Pe resistance to moisture (**triple layer dielectric**) **matched with M&P connectors**
 - Outstanding velocity ratio (86%) and Screening efficiency (SA>105 dB)**
 - Enhanced structure in the braiding process (50% more Crossovers), **giving to the braid an active role in the resistance to torsions, typical of cables linked to rotor operated antennas**
 - Engineered to give the best atten. performance and stunning flexibility in a relatively compact size cable!
Exactly the same size of LMR®500UF, with exceptional **performances (Att.+Power handling).**
- (*):The power handling values in M&P cables are for RTTY transmissions. For SSB you can double the values.
Never exceed the indicated peak power value!

M&P-ULTRAFLEX 13 can be an excellent replacement of: LMR®500UF

Quick cross reference table

Times Microwave		Messi & Paoloni		
LMR@600-UF		Vs.	M&P-HYPERFLEX 13	
Source Times Microwave Website calculator			Source M&P website	
Att. dB/100ft (100/m) / Power Handling kW				
28 MHz	0.5dB (1.6)/ 4.71kW		0.48dB (1.58)/ 4.96kW	28 MHz
50 MHz	0.7dB (2.2)/ 3.51kW		0.61dB (2.0)/ 3.87kW	50 MHz
144 MHz	1.1dB (3.7)/ 2.04kW		1.10dB (3.6)/ 2.40kW	144 MHz
200 MHz	1.4dB (4.4)/ 1.72kW		1.30dB (4.28)/ 2.15.kW	200 MHz
430 MHz	2.0dB (6.6)/ 1.15kW		1.95dB (6.41)/ 1.44kW	430 MHz
1000 MHz	3.2dB (10.4)/ 0.73kW		3.09dB (10.14)/ 0.91kW	1000 MHz
1296 MHz	3.6dB (11.9)/ 0.63kW		3.57dB (11.7)/ 0.79kW	1296 MHz
2400 MHz	5.1dB (16.8)/ 0.45kW		5.08dB (16.68)/ 0.55kW	2400 MHz
4000 MHz	6.8dB (22.5)/ 0.34kW		6.84dB (22.45)/ 0.41kW	4000 MHz
6000 MHz	8.7dB (28.4)/ 0.26kW		8.75dB (28.71)/ 0.32kW	6000 MHz
8000 MHz	10.3dB (33.8)/ 0.22kW		10.54dB (34.57)/ 0.27kW	8000 MHz
10000 MHz	N/A		12.34dB (40,5)/ 0.23kW	10000 MHz
12000 MHz	N/A		14,02dB (46.0)/ 0.20kW	12000 MHz

Core .176" (4.47 mm) stranded BC (n. wires N/A)		37 stranded BC wires O.D. .149" (3.8mm)	
Dielectric	Gas Inj Foam Pe	Gas injected Foam Pe triple layer	Dielectric
Foil	Aluminum 100%	Bare Copper+Pe 100%	Foil
Braid	Tin clad Copper (% N/A) 16 spools braiding Tin over Aluminum= galvanic c.	Copper clad Al 70% 24 spools braiding (50% more crossovers) Copper over copper= correct matching	Braid
Jacket	Black Thermoplastic Elastomer	UV resistant Non Migr. PVC	Jacket
O.D.	.600"	.500" (yes 0.100" smaller)!	O.D.
	87% Velocity ratio	86% Velocity ratio	
Weight	0.165 lb/ft - (0.25 Kg/m)	0.1169 lb/ft - (0.174 Kg/m)	Weight
SA	Screening attenuation >90 dB	Screening Atten. >105dB	SA
	N/A	ROHS compliant:Yes	

Why should you chose this M&P Cable?

LIGHTWEIGHT, COMPACT, EXTREMELY FLEXIBLE, DOUBLE SHIELDED, PERFORMANT!

Bare Copper Clad Al braid over copper foil = No Galvanic current effect

Amazing flexibility: every layer of the cable has been optimized to such a result

Excellent performances for attenuations and power handling, due to the even surface of the 37 wires core

Top level performances in the stranded core class of cables (even compared to bigger .600" cables)

Improved Foam Pe Structure and resistance to multiple bends (under reasonable angles)

Improved Foam Pe resistance to moisture (**triple layer dielectric**) **matched with M&P Original connectors**

Outstanding velocity ratio (86%) and Screening efficiency (SA>105 dB)

Enhanced structure in the braiding process (50% more Crossovers), **giving to the braid an active role in the resistance to torsions, typical of cables linked to rotor operated antennas**

Engineered to give the best attenuation performance and flexibility in a compact size cable, sits right in between the .400" cables (like RG213/U and LMR400) and the .600" cables

(*):The power handling values in M&P cables are for RTTY transmissions. For SSB you can double the values.
Never exceed the indicated peak power value!