

# Quick cross reference table

Between ABR industries and Messi & Paoloni equivalent products

**ABR Industries** vs. **Messi & Paoloni**

<b>LMR®195 Type</b> <i>Source ABR Ind. Website</i>		<b>Vs.</b>	<b>M&amp;P-Airborne5</b> <i>Source M&amp;P website</i>	
<b>declared</b>				
<b>Att. dB/100ft /Power Handling kW</b>				
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	<b>Core 0.044"</b>
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	
<b>O.D.</b>	<b>.195"</b>	<b>.197"</b>	<b>O.D.</b>
	N/A Velocity ratio	85% Velocity ratio	
SA	Screening Atten. > 90dB	<b>Screening Atten. &gt;105dB</b>	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		M&P-HYPERFLEX 5	
Source ABR Ind. Website		Source M&P website	
<b>declared</b>			
<b>Att. dB/100ft /Power Handling kW</b>			
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
<b>O.D.</b>	<b>.240" (same size of RG8X)</b>	<b>.212" (a tad bigger than Rg 58)</b>	<b>O.D.</b>
	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
<b>Amazing flexibility:</b> every layer of the cable has been optimized to such a result
<b>excellent performances at low frequencies (attenuations and power handling)</b>
<b>top class performances at high frequencies</b> 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 ( <b>triple layer dielectric</b> ) <b>matched with M&amp;P connectors</b>
<b>Outstanding velocity ratio (87%) and Screening efficiency (SA&gt;105 dB)</b>
Enhanced structure in the braiding process (50% more Crossovers), <b>giving to the braid an active role in the resistance to torsions, typical of cables linked to rotor operated antennas</b>
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 <b>performances.</b>
(*):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			
<b>LMR®240UF Type</b>	<b>Vs.</b>	<b>M&amp;P-Ultraflex 7</b>	
Source ABR Ind. Website		Source M&P website	
<b>declared</b>			
<b>Att. dB/100ft /Power Handling kW</b>			
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
<b>O.D.</b>	<b>.240" (same size RG8X)</b>	<b>.287"</b>	<b>O.D.</b>
	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
<b>O.D.</b>	<b>.300"</b>	<b>.287"</b>	<b>O.D.</b>
	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	
RG 213/U Mil-Spec		M&P-Ultraflex 7	
Source ABR Ind. Website		Source M&P website	
<b>declared</b>			
<b>Att. dB/100ft /Power Handling kW</b>			
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
<b>O.D.</b>	<b>.405"</b>	<b>.287"</b>	<b>O.D.</b>
	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		Messi & Paoloni	
RG 213/U Mil-Spec		M&P-ULTRAFLEX 10	
Source ABR Ind. Website		Source M&P website	
<b>declared</b>			
<b>Att. dB/100ft /Power Handling kW</b>			
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
<b>O.D.</b>	<b>.405"</b>	<b>.400"</b>	<b>O.D.</b>
	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	
<b>Why should you chose this M&amp;P Cable?</b>			

Bare copper braid over copper foil = No Galvanic current effect and 171% optical coverage
<b>Amazing flexibility:</b> every layer of the cable has been optimized to such a result
<b>excellent performances at low frequencies (attenuations and power handling)</b>
<b>The higher the frequencies, the bigger the gap with the old technology of RG 213/U and RG 8</b>
Improved Foam Pe Structure and resistance to multiple bends (under reasonable angles)
Improved Foam Pe resistance to moisture ( <b>triple layer dielectric</b> ) <b>matched with M&amp;P connectors</b>
<b>Top class velocity ratio (83%) and Screening efficiency (SA&gt;105 dB)</b>
Enhanced structure in the braiding process (50% more Crossovers), <b>giving to the braid an active role in the resistance to torsions, typical of cables linked to rotor operated antennas</b>
<b>Lightweight and well balanced:</b> we have reduced the overall weight where possible and re-engineered each layer in order to add performance and resistance! <b>weight: M&amp;P-Ultraflex10 = 8.73 lb per 100 ft instead of 10 lb of RG 213/U</b>
(*):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	
<b>declared</b>			
<b>Att. dB/100ft /Power Handling kW</b>			
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
<b>O.D.</b>	<b>.400"</b>	<b>.400"</b>	<b>O.D.</b>
	85% Velocity ratio	87% Velocity ratio	
SA	N/A	Screening Atten. >105dB	SA
	ROHS compliant:Yes	ROHS compliant:Yes	
<b>Why should you chose this M&amp;P Cable?</b>			

Bare CCA braid over copper foil = No Galvanic current effect
<b>Amazing flexibility:</b> every layer of the cable has been optimized to such a result
<b>excellent performances at low frequencies (attenuations and power handling)</b>
<b>top class performances at high frequencies</b> 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 ( <b>triple layer dielectric</b> ) <b>matched with M&amp;P connectors</b>
<b>Top class velocity ratio (87%) and Screening efficiency (SA&gt;105 dB)</b>
Enhanced structure in the braiding process (50% more Crossovers), <b>giving to the braid an active role in the resistance to torsions, typical of cables linked to rotor operated antennas</b>
<b>Lightweight and well balanced:</b> 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*	<b>1000 MHz</b>

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	
<b>Ext.size</b>	<b>O.D. .400" (same as RG8)</b>	<b>O.D. .400" (same as RG213/U)</b>	<b>Ext.size</b>
	85% Velocity ratio	<b>87% Velocity ratio</b>	
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

<b>Times Microwave</b>		<b>Messi &amp; Paoloni</b>
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<b>LMR®500-UF</b>		Vs.	<b>M&amp;P-ULTRAFLEX 13</b>	
Source Times Microwave Systems Website			Source M&P website	
<b>declared</b> <b>Att. dB/100ft (100/m) / Power Handling kW</b>				
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)		<b>core .149"</b>
Dielectric	Gas Inj Foam Pe	Gas injected Foam Pe triple layer	Dielectric
Foil	Aluminum 100%	<b>Bare Copper+Pe 100%</b>	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
<b>O.D.</b>	<b>0.500" (12,7 mm)</b>	<b>0.500" (12,7 mm)</b>	<b>O.D.</b>
	85% Velocity ratio	<b>86% Velocity ratio</b>	
SA	Screening Atten. >90dB	<b>Screening Atten. &gt;105dB</b>	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
<b>O.D.</b>	<b>.600"</b>	<b>.500" (yes 0.100" smaller)!</b>	<b>O.D.</b>
	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!