



M&P UltraFlex 7^{1.287"}

ULTRAFLEXIBLE
UV resistant PVC jacket.
PVC Ø 7,3 mm ± 0,15
(0.287 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: 83% 144 wires

High pressure physical injection foamed polyethylene.
TRIPLE LAYER DIELECTRIC
FPE Ø 5 mm ± 0,05
(0.196 inches ± 0.0019)



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

Inner conductor made of 19x0,38 stranded geometric and concentric copper wires.
Purity 99,99% annealed.
(annealed = thermal softening process)
Cu 19x0,38 mm - Ø 1,9 mm ± 0,15
(19x0.015 inches - 0.075 inches ± 0.0059)

ATTENUATION at 20°C/68°F

| FREQUENCY | dB/100m | dB/100ft |
|-----------|---------|----------|
| 1,8 MHz | 1,1 | 0,34 |
| 3,5 MHz | 1,39 | 0,42 |
| 7,0 MHz | 1,7 | 0,52 |
| 10 MHz | 1,97 | 0,60 |
| 14 MHz | 2,28 | 0,69 |
| 21 MHz | 2,68 | 0,82 |
| 28 MHz | 3,0 | 0,91 |
| 50 MHz | 4,0 | 1,22 |
| 100 MHz | 5,8 | 1,77 |
| 144 MHz | 6,9 | 2,10 |
| 200 MHz | 8,2 | 2,50 |
| 400 MHz | 11,8 | 3,60 |
| 430 MHz | 12,3 | 3,75 |
| 800 MHz | 17,1 | 5,21 |
| 1000 MHz | 19,3 | 5,88 |
| 1296 MHz | 22,33 | 6,81 |
| 2400 MHz | 32,3 | 9,85 |
| 3000 MHz | 36,2 | 11,03 |
| 4000 MHz | 42,6 | 12,98 |
| 5000 MHz | 49,3 | 15,03 |
| 6000 MHz | 55,3 | 16,86 |
| 7000 MHz | 61,6 | 18,78 |
| 8000 MHz | 68,4 | 20,85 |

| SRL | |
|---------------|--------|
| 0,3-600 MHz | >28 dB |
| 600-1200 MHz | >22 dB |
| 1200-2000 MHz | >18 dB |

ELECTRICAL DATA

| | | |
|--------------------------------|---|-------------------|
| Impedance @200MHz : | 50 Ohm ± 3 | |
| Minimum bending radius: | | |
| Multiple bends(15)/single bend | 68/34 mm | (2.68/1.34 in) |
| Temperature: | installation -40°C to + 60°C | (-40°F to +140°F) |
| | operative -55°C to + 85°C | (-67°F to +185°F) |
| Capacitance: | 75 pF/m ± 2 | (22.9 pF/ft) |
| Velocity ratio: | 83 % | |
| Screening efficiency: | | |
| 100-2000 MHz | >105 dB | |
| Inner conductor resistance: | 7,3 Ohm/Km | (2.2 Ohm/1000ft) |
| Outer conductor resistance: | 9,8 Ohm/Km | (3.0 Ohm/1000ft) |
| Tension test (spark test): | 4 kV | |
| Weight (100m/100ft): | 6,9 Kg | (15.21 lb) |
| Maximum peak power: | 8000 WATT | |
| Connectors: | CO.N.7M-S ; CO.UHF.7M-S ; C.TNC.AC7-M-S | |

POWER HANDLING (at 40°C/104°F)

| FREQUENCY | MAXP | FREQUENCY | MAXP |
|-----------|--------|-----------|-------|
| 1,8 MHz | 4572 W | 430 MHz | 353 W |
| 3,5 MHz | 3393 W | 800 MHz | 254 W |
| 7,0 MHz | 2714 W | 1000 MHz | 225 W |
| 10 MHz | 2286 W | 1296 MHz | 195 W |
| 14 MHz | 1974 W | 2400 MHz | 134 W |
| 21 MHz | 1670 W | 3000 MHz | 120 W |
| 28 MHz | 1448 W | 4000 MHz | 102 W |
| 50 MHz | 1086 W | 5000 MHz | 88 W |
| 100 MHz | 749 W | 6000 MHz | 79 W |
| 144 MHz | 629 W | 7000 MHz | 71 W |
| 200 MHz | 530 W | 8000 MHz | 63 W |
| 400 MHz | 368 W | | |

For step by step assembly instructions of connectors, please visit our website www.messi.it

Our products are manufactured in compliance with: CEI 46-1 (construction parameters); EN 50117(screening efficiency); CEI EN 50289(SA test methods); IEC 60332-1-2(cables with LSZH jacket)