

M&P Hyperflex 5 LIGHT



JACKET :
UV-resistant black
PVC or LSZH
Ø 5,4mm ± 0,15
(0.212 inches)

REACTIVE BRAID :
88% SCREENING - 120 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

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

DIELECTRIC :
High pressure physical injection foamed polyethylene
TRIPLE LAYER
overall Ø 3,7 mm ± 0,05 (0.145inches ± 0.0019)

INNER CONDUCTOR :
19x0,29mm copper wires - overall Ø 1,4 mm ± 0,15
(19x0.011 inches - overall Ø 0.055 inches ± 0.0059)

ATTENUATION (20°C /68°F)
FREQUENCY dB/100m dB/100ft

| | | |
|----------|------|------|
| 1,8 MHz | 1,4 | 0,4 |
| 3,5 MHz | 1,9 | 0,5 |
| 7 MHz | 2,3 | 0,7 |
| 10 MHz | 2,6 | 0,8 |
| 14 MHz | 3,0 | 0,9 |
| 21 MHz | 3,6 | 1,1 |
| 28 MHz | 4,1 | 1,2 |
| 50 MHz | 5,5 | 1,7 |
| 100 MHz | 8,0 | 2,4 |
| 144 MHz | 9,6 | 2,9 |
| 200 MHz | 11,4 | 3,4 |
| 400 MHz | 16,3 | 4,9 |
| 430 MHz | 17,0 | 5,1 |
| 800 MHz | 23,4 | 7,1 |
| 1000 MHz | 26,4 | 8,0 |
| 1296 MHz | 30,5 | 9,3 |
| 2400 MHz | 42,5 | 12,9 |
| 3000 MHz | 48,1 | 14,6 |
| 4000 MHz | 56,9 | 17,3 |
| 5000 MHz | 65,2 | 19,9 |
| 6000 MHz | 72,9 | 22,2 |

ELECTRICAL DATA

| | |
|-----------------------------|---|
| Impedence @200Mhz: | 50 Ohm ± 3 |
| Minimum bending radius: | up to 15 bends: 50mm (1.97 in) single bend (choke): 25mm (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 factor: | 87% |
| Screening Efficiency (SA) | 100-2000 MHz >105 dB |
| Screening Class: | A++ |
| Inner conductor resistance: | 14 Ohm/Km |
| Outer conductor resistance: | 27 Ohm/Km |
| Tension test (spark test): | 4 kV |
| Net weight (100m/100ft): | 3,4 Kg |
| Maximum peak power: | 2.900 WATT |

RETURN LOSS

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

POWER HANDLING (40°C/104°F)

| FREQUENCY | MAX P. | FREQUENCY | MAX P. |
|-----------|--------|-----------|--------|
| 1,8 MHz | 1274 W | 400 MHz | 115 W |
| 3,5 MHz | 987 W | 430 MHz | 111 W |
| 7 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 | | |

OUR PRODUCTS ARE MANUFACTURED IN COMPLIANCE WITH:
CEI 46-1 (construction parameters); EN 50117 (screening efficiency); CEI EN 50289 (SA test methods); R118 (ISO7622-1); IEC 60332-1-2 (cables with PVC and LSZH jacket); CPR305/11 (EN50575:2014)