

# Hyperflex 10

for HOT countries

# Sahara

**M&F**

**INNER CONDUCTOR:**  
19x0,59mm **COPPER**  
wires - overall Ø 2,9 mm

**JACKET:**  
UV-resistant white **PVC**  
overall Ø 10,3mm ± 0,15  
(0.405 inches)

**DIELECTRIC:**  
High pressure physical injection  
**FOAMED POLYETHYLENE**  
**TRIPLE LAYER**  
overall Ø 7,3 mm ± 0,05 (0.287 inch)

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

**REACTIVE BRAID:**  
85% SCREENING - 216 wires of  
**COPPER** 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

## ELECTRICAL DATA

Impedence @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)
Capacity:	78 pF/m ± 2 (23.8 pF/ft ± 2)
Velocity ratio:	87%
Screening Efficiency	100-2000 MHz >105 dB
Inner conductor resistance:	3,6 Ohm/Km
Outer conductor resistance:	6 Ohm/Km
Tension test (spark test):	8 kV
Net weight (100m/100ft):	11,2 Kg
Maximum peak power:	13.000 WATT
Connectors:	UHF (PL), N, BNC, SMA, TNC, 7/16

## POWER HANDLING (40°C/104°F)

FREQUENCY	MAX P.	FREQUENCY	MAX P.
1,8 MHz	9927 W	200 MHz	1226 W
3,5 MHz	7721 W	400 MHz	837 W
7 MHz	5990 W	430 MHz	808 W
10 MHz	5186 W	800 MHz	581 W
14 MHz	4483 W	1000 MHz	516 W
21 MHz	3777 W	1296 MHz	449 W
28 MHz	3357 W	2400 MHz	319 W
50 MHz	2518 W	4000 MHz	239 W
100 MHz	1759 W	8000 MHz	157 W
144 MHz	1460 W	10.000 MHz	137 W

## ATTENUATION (20°C/68°F)

FREQUENZA	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
4000 MHz	29,1	8,8
8000 MHz	44,2	13,4
10.000 MHz	50,7	15,4

**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)

## SRL

0,3-600 MHz	>30 dB
600-1200 MHz	>25 dB
1200-2000 MHz	>20 dB