MESSI & PAOLONI

A BOARD

JACKET:
UV-resistant black
LSZH Ø 10,3mm (0.400")
limits smoke and no halogen
when exposed to flames.

REACTIVE BRAID:
71% SCREENING - 144 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

FOIL: 100% SCREENING
First screen made of copper



DIELECTRIC:
High pressure physical injection
foamed polyethylene
TRIPLE LAYER
overall Ø 7,3 mm ± 0,05 (0.287 inch. ± 0.0019)

INNER CONDUCTOR:
made of copper clad aluminium
overall Ø 2,78 mm ± 0,05 (Ø 0.109 inches ± 0.0019)

Member of CISQ Federation
RINA
IQNet
CERTIFIED MANAGEMENT SYSTEM
ISO 9001

ATTENUATION (20°C /68°F)

FREQUENCY	dB/100m	dB/100ft
1,8 MHz	0,6	0,2
3,5 MHz	0,8	0,2
7 MHz	1,0	0,3
10 MHz	1,2	0,3
14 MHz	1,3	0,4
21 MHz	1,7	0,5
28 MHz	1,9	0,5
50 MHz	2,4	0,7
100 MHz	3,5	1,0
144 MHz	4,2	1,2
200 MHz	5,0	1,5
400 MHz	7,2	2,1
430 MHz	7,6	2,3
800 MHz	10,4	3,1
1000 MHz	11,8	3,6
1296 MHz	13,6	4,1
2400 MHz	19,2	5,8
3000 MHz	21,6	6,5
4000 MHz	25,6	7,8
5000 MHz	29,2	8,9
6000 MHz	32,8	10,0
7000 MHz	35,6	10,8
8000 MHz	38,6	11,7
10.000 MHz	44,6	13,5
12.000 MHz	50,2	15,3

ELECTRICAL DATA

Impedence @200Mhz:	50 Ohm ± 3
Minimum bending radius:	up to 15 bends: 103mm (4.05 in) single bend (choke): 65mm (2.56 in)
Temperature:	-40°C to +60°C (-40°F to +140°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:	4,4 Ohm/Km (0.9 Ohm/1000ft)
Outer conductor resistance:	9,2 Ohm/Km (2.8 Ohm/1000ft)
Tension test (spark test):	8 kV
Net weight (100m/100ft):	11 Kg (7.5 lb)
Maximum peak power:	14.500 WATT
Connectors:	UHF (PL), N, BNC, SMA, TNC, 7/16

RETURN LOSS

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

POWER HANDLING (40°C/104°F)

FREQUENCY	MAX P.	FREQUENCY	MAX P.
1,8 MHz	10831 W	430 MHz	944 W
3,5 MHz	8471 W	800 MHz	692 W
7 MHz	6667 W	1000 MHz	610 W
10 MHz	6000 W	1296 MHz	529 W
14 MHz	5180 W	2400 MHz	375 W
21 MHz	4114 W	3000 MHz	333 W
28 MHz	3731 W	4000 MHz	281 W
50 MHz	2939 W	5000 MHz	247 W
100 MHz	2045 W	6000 MHz	220 W
144 MHz	1710 W	7000 MHz	202 W
200 MHz	1440 W	8000 MHz	187 W
400 MHz	992 W	10.000 MHz	161 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); IEC61034 = EN50268 (Density of smoke during combustion condition), IEC60754-2 = EN50267 = HD602-1 (Corrosivity and PH of smokes.) , IEC 60332-1-2 (cables with PVC and LSZH jacket); IEC 60332-3-24 (Burning test on a bunch of cables placed vertically) , CPR305/11 (EN50575:2014 - DoP number: MP00119)
All the above mentioned norms are summarized in EN60092-360 which has been tested by the IMQ private Laboratory, lately approved by RINA