

Digisat 123 Elite

Class A++

High resistance "tear proof" PVC Jacket to be used mostly inside conduits.

PVC Ø 5 ± 0,15 mm

NOTE : for outdoor use we warmly recommend black PE Jacket cables, with the addition of **PPC®** "AquaTight®" connectors.

Triple layer screening tape, (foil), highly effective against high frequency interferences.

AL-POL-AL

100% screening percentage

High pressure physical injection foamed polyethylene

TRIPLE LAYER DIELECTRIC

FPE Ø 3,5 ± 0,05 mm

Inner conductor : 99,99% pure electrolytic annealed bare copper (annealed=thermal softening process)

Cu Ø 0,81 mm

High resistance screen made of a sturdy Aluminium-Magnesium alloy **BRAID** (AlMg). The braiding process is operated by means of **24 spools** braiding machines. (50% more crossings if compared to traditional 16 spools machines). Highly effective against low frequency impulsive noises.

SCREENING

PERCENTAGE: 80%

96 wires



ELECTRICAL DATA

| | | |
|--------------------------|------------------|---------------|
| Nominal Impedance | Ohm±3 | 75 |
| Capacitance | pF/m±2 | 52 |
| Velocity Ratio | % | 85 |
| Attenuation | at 20° C) | |
| | MHz 5 | dB/100 m 1,3 |
| | MHz 50 | dB/100 m 5,5 |
| | MHz 200 | dB/100 m 10,5 |
| | MHz 470 | dB/100 m 16,4 |
| | MHz 860 | dB/100 m 22,5 |
| | MHz 1000 | dB/100 m 24,3 |
| | MHz 1750 | dB/100 m 32,7 |
| | MHz 2050 | dB/100 m 35,5 |
| | MHz 2150 | dB/100 m 36,9 |
| | MHz 2400 | dB/100 m 38,5 |
| | MHz 3000 | dB/100 m 43,5 |

Structural Return Loss (SRL)

| | | | |
|----------|-----|----|-----|
| 30-470 | MHz | dB | >36 |
| 470-860 | MHz | dB | >32 |
| 860-2150 | MHz | dB | >26 |

Screening efficiency :

| | | | |
|-----------|-----|----|------|
| 30-1000 | MHz | dB | >105 |
| 1000-2000 | MHz | dB | >100 |
| 2000-3000 | MHz | dB | >90 |

Transfer Impedance (return path) mOhm/m <1

Inner conductor resistance Ohm/Km 34

Outer conductor resistance Ohm/Km 33

Tension test of the jacket (Spark test) 4 kV

STANDARD PACKING type & meters AR150
(150m refills for Arianna unwinders)

Other packings : 250 and 500m drums

Compression type "F" PPC Connector : CMPMC 37 / CMPMC 37-A

Crimp type "F" connector : MP-CRP 5

Screw type "F" connector : C.TV.FM. 5