



FABBRICA CAVI - ANTENNE - ACCESSORI TV



AR 59 SHF1

DOUBLE SCREENED 75 OHM RF COAXIAL CABLE
MANUFACTURED IN COMPLIANCE WITH MIL-C-17F STANDARDS
IN ACCORDANCE TO : IEC 60092-359 IEC 60332-1-2 IEC 60332-3-22/24
IEC 60754-1 IEC 60754-2 IEC 60811-3-1 IEC 61034-2

CW **PE** **LTA** **CU** **LSZH** **FE-ZN** **LSZH**
 ø 0,58 mm ø 3,70 mm ø 3,80 mm ø 4,40 mm ø 6,20 mm ø 7,15 mm ø 9,40 mm



MECHANICAL DATA

| | | | | |
|----------|------------------------|--|-------|-------------------|
| A | INNER CONDUCTOR | COPPERWELD | ..... | ø 0,58 ± 0,025 mm |
| B | DIELECTRIC | LOW DENSITY POLYETHYLENE | ..... | ø 3,70 ± 0,10 mm |
| C | SHIELD | ALUMINIUM + POLYESTER + ALUMINIUM TAPE | ..... | h. 18 mm |
| | - COVERAGE | ..... | ..... | 100% |
| D | BRAID | PLAIN COPPER | ..... | 120 x 0,15 mm |
| | - COVERAGE | ..... | ..... | 93% |
| E | SHEATH | FLAME RETARDANT NON-CORROSIVE THERMOPLASTIC FREE OF HALOGENS | ..... | ø 6,20 ± 0,20 mm |
| | - COLOUR | BLACK - RAL 9004 | | |
| G | ARM | ZINC-PLATED STEEL | ..... | 96 x 0,24 mm |
| | - COVERAGE | ..... | ..... | 87% |
| H | SHEATH | FLAME RETARDANT NON-CORROSIVE THERMOPLASTIC FREE OF HALOGENS | ..... | ø 9,40 ± 0,20 mm |
| | - COLOUR | BLACK - RAL 9004 | | |
| | - PRINTING | ## METER ## NEK KABEL SETT/ANNO RG 59 BU MARINE SHF1 ARMOURED | | |
| | | 75 OHM IEC 60332-3-22/24 CAT.A DNV SC..... CE | | |

MINIMUM BENDING RADIUS (mm)

- SINGLE ø EXTERNAL X 5
- REPEATED ø EXTERNAL X 10

TEMPERATURE RANGE -40 °C / +80 °C

CABLE WEIGHT (Kg/Km)

- COPPER 22,4
- PLASTIC 78,1
- TOTAL 144,2

ELECTRICAL PROPERTIES at 20°C

IMPEDANCE 75 ± 3 Ohm

CAPACITANCE 67 pF/m

VELOCITY RATIO 66%

RESISTANCE

- INNER CONDUCT. 166 Ohm/Km
- BRAID 9 Ohm/Km

TENSION

- SHEATH 4,5 kV
- SPARK TESTING

ATTENUATIONS dB/100 m.

| | | dB | W |
|-----|-----|------|---|
| 5 | MHz | 2,4 | |
| 10 | MHz | 3,0 | |
| 50 | MHz | 6,8 | |
| 100 | MHz | 10,0 | |
| 200 | MHz | 14,2 | |
| 400 | MHz | 20,5 | |

MAX. POWER RATING W

| | | dB | W |
|------|-----|------|---|
| 500 | MHz | 23,5 | |
| 600 | MHz | 25,7 | |
| 800 | MHz | 30,2 | |
| 1000 | MHz | 34,2 | |
| 1350 | MHz | 40,3 | |
| 1500 | MHz | 43,4 | |

| | | dB | W |
|------|-----|------|---|
| 1750 | MHz | 47,7 | |
| 2150 | MHz | 54,1 | |
| 2250 | MHz | 55,0 | |
| 2500 | MHz | 58,1 | |
| 2750 | MHz | 61,3 | |
| 3000 | MHz | 65,9 | |

STRUCTURAL RETURN LOSS dB

| | | | |
|----------------|-----|-------------------|-----|
| 30 ÷ 300 MHz | >29 | 1000 ÷ 2000 MHz | >14 |
| 300 ÷ 600 MHz | >26 | 2000 ÷ 3000 MHz | - |
| 600 ÷ 1000 MHz | >18 | ÷ MHz | - |

SCREENING EFFECTIVENESS dB

| | |
|-----------------|-----|
| 100 ÷ 900 MHz | >95 |
| 900 ÷ 2000 MHz | >90 |
| 2000 ÷ 3000 MHz | >80 |

The producer reserves himself to make modification on the item without any notice.