RG 59 U/4 (Cu/Al)

MARINE COAX CABLE
(Double Shielded)

CABLE STRUCTURE

Inner Conductor	0,80 mm bare solid copper
Insulation	Gas Injected Skin/Foam/Skin Polyethylene compound
Screen 1	Aluminum foil (bonded to the Insulation)
Screen 2	Aluminum wire braiding
Outer Sheath :	Halogen free flame retardant compound (SHFI)

TECHNICAL PROPERTIES

Overall diameter:	Ø 5,80 ± 0,20 mm
Cable Weight	35 kg/km
Min. Bending Radius	50 mm
Max. Tensile Strength	30 N
Operating Temperature	-20 ˚C / +70 ˚C
Screening Class	Class C
Construction	EN 50117-2-4 (MIL-C-17)
Flame Retardant	EN 60332-1-2, IEC 60332-3-24
Halogen Content	IEC 60754-1/2, IEC 60684-2
Smoke Emission	IEC 61034-1/2

ELECTRICAL PROPERTIES at 20˚C

Max. Conductor Resistance	34,5 Ω / km
Min. Insulation Resistance	2 GΩ x km
Capacitance	53 ± 3 pF / m
Impedance	75 ± 2 Ω
Transfer Impedance at 5-30 Mhz	≤ 50 mΩ/m
Velocity of Propagation	83 ± 3 %
Test Voltage	5 kV
Operating Voltage	1000 V

Attenuations at 20˚C

5 MHz	2.20 dB / 100m
50 MHz	5.80 dB / 100m
230 MHz	11.90 dB / 100m
470 MHz	17.70 dB / 100m
860 MHz	23.90 dB / 100m
1000 MHz	25.75 dB / 100m
1200 MHz	33.20 dB / 100m
2150 MHz	38.50 dB / 100m
3000 MHz	48.75 dB / 100m

Return Loss at 20˚C

5-470 MHz	> 26 dB
470-1200 MHz	> 23 dB
1200-2000 MHz	> 20 dB
2000-3000 MHz	> 18 dB

Screen Attenuations

30-1200 MHz	≥ 75 dB
1200-2000 MHz	≥ 65 dB
2000-3000 MHz	≥ 55 dB

APPLICATIONS

These types of cables are used for CCTV and indoor CATV distributions and connections of systems which require low attenuations. These cables are Halogen Free, Non Corrosive and Flame retardant, thanks to the HFFR Compound that has been used on their construction.