

## Coaxial cables used for radio antenna and mobile communication networks - H-155 & RG-8X Equivalents

### Specification

- Impedance: 50  $\Omega$
- Physical foam
- 100% Double Aluminum Foil
- Tinned Copper Braid
- Flame-retardant PVC, PE or LSOH
- Meter markings



Type		CH-H155 PVC	CH-H155 PE	CH-H155 LSOH
Order no.	100m	22-8230	22-8245	22-8260
Order no.	305m	22-8235	22-8250	22-8265
Order no.	500m	22-8240	22-8255	22-8270
Centre Conductor	$\varnothing$ mm	19 x 0.28 Stranded Bare Copper	19 x 0.28 Stranded Bare Copper	19 x 0.28 Stranded Bare Copper
Insulation	$\varnothing$ mm	3.90 Foam P.E.	3.90 Foam P.E.	3.90 Foam P.E.
1st Shielding		Double Aluminum Foil	Double Aluminum Foil	Double Aluminum Foil
1st Outer Conductor	$\varnothing$ mm	0.10 x 128 CuSn	0.10 x 128 CuSn	0.10 x 128 CuSn
2nd Shielding				
2nd Outer Conductor	$\varnothing$ mm			
Outer Jacket	$\varnothing$ mm	5.4 PVC	5.4 PE	5.4 LSOH
Bending Radius	Loaded	20 Times Cable OD	20 Times Cable OD	20 Times Cable OD
	Unloaded	10 Times Cable OD	10 Times Cable OD	10 Times Cable OD
Attenuation (20 °C, dB/100 m)	f = 5 MHz	3.10	3.10	3.10
	f = 50 MHz	6.60	6.60	6.60
	f = 100 MHz	9.50	9.50	9.50
	f = 230 MHz	14.40	14.40	14.40
	f = 300 MHz	16.60	16.60	16.60
	f = 400 MHz	19.40	19.40	19.40
	f = 470 MHz	21.00	21.00	21.00
	f = 860 MHz	28.90	28.90	28.90
	f = 1000 MHz	31.40	31.40	31.40
	f = 1350 MHz	37.00	37.00	37.00
	f = 1750 MHz	42.50	42.50	42.50
	f = 2050 MHz	46.60	46.60	46.60
f = 2400 MHz	49.80	49.80	49.80	
Return Loss (dB)	5- 470 MHz	> 20.00dB	> 20.00dB	> 20.00dB
	470- 1000 MHz	> 18.00dB	> 18.00dB	> 18.00dB
	1000 - 2000 MHz	> 16.00dB	> 16.00dB	> 16.00dB
DC loop Resistance	$\Omega$ /km	< 32.4	< 32.4	< 32.4
DC Resistance (Centre Conductor)	$\Omega$ /km	< 15.4	< 15.4	< 15.4
DC Resistance (Outer Conductor)	$\Omega$ /km	< 17.0	< 17.0	< 17.0
Screening factor at 1 - 1000MHz		> 85dB	> 85dB	> 85dB
Capacitance		84 pF/m $\pm$ 2 pF/m	84 pF/m $\pm$ 2 pF/m	84 pF/m $\pm$ 2 pF/m
Velocity ratio		82%	82%	82%
Admissible ambient temperature	$^{\circ}$ C	-20 $^{\circ}$ C to 75 $^{\circ}$ C	-40 $^{\circ}$ C to 80 $^{\circ}$ C	-40 $^{\circ}$ C to 105 $^{\circ}$ C
Packing	100m	Coil	Coil	Coil
	100m	Paper Drum	Paper Drum	Paper Drum
	305m	Wooden Drum	Wooden Drum	Wooden Drum
	500m	Wooden Drum	Wooden Drum	Wooden Drum