

Benchmark Summary : RNE678/100-07 2004 Cable Type 100

STANDARD : BS EN50117-1: 1997 *Coaxial Cables used in cabled distribution networks*

Sections : 10.2.1, 10.2.2, 10.2.4, 10.4, 11.1, 11.5, 11.6, 11.7, 11.8, 11.9, 11.10

MECHANICAL SPECIFICATION

Inner Conductor	:	Copper
Diameter Of Inner Conductor	:	1.00 +/- 0.02mm
Outer Braid/Tape	:	No Contact Between Dissimilar Metals
External Diameter over Sheath	:	6.55 +/- 0.3mm
Bending Radius	:	40 mm
Flexing Radius	:	75 mm

ELECTRICAL SPECIFICATION

Nominal Impedance	:	75 Ω +/- 3 Ω
DC Resistance (20° C)	:	Inner < 26 Ω /km Outer < 15 Ω /km

Attenuation :

5 MHz	:	< 1.6 dB / 100 m
50 MHz	:	< 4.6 dB / 100 m
100 MHz	:	< 6.5 dB / 100 m
200 MHz	:	< 9.5 dB / 100 m
460 MHz	:	< 15.0 dB / 100 m
860 MHz	:	< 19.5 dB / 100 m
1000 MHz	:	< 21.5 dB / 100 m
1750 MHz	:	< 29.0 dB / 100 m
2150 MHz	:	< 32.5 dB / 100 m

Return Loss :

5 - 30 MHz	:	> 23 dB
30 - 470 MHz	:	> 23 dB
470 - 862 MHz	:	> 20 dB
862 - 2150 MHz	:	> 18 dB

Screening Attenuation :

30 - 470 MHz	:	> 75 dB
470 - 1000 MHz	:	> 75 dB
1000 - 2150 MHz	:	> 65 dB

Screening Attenuation following Flexing Test :

30 - 470 MHz	:	> 65 dB
470 - 1000 MHz	:	> 65 dB
1000 - 2150 MHz	:	> 65 dB

Flexing : Maintain minimum impedance regularity <1%, and screening performance

Static Bend Test : Maintain minimum impedance regularity <1%

Crush Resistance : Maintain impedance regularity <1%

Benchmark Summary : RNE678/125-04 2005 Cable Type 125

STANDARD : BS EN50117-1: 1997 *Coaxial Cables used in cabled distribution networks*

Sections : 10.2.1, 10.2.2 , 10.2.4 , 10.4 , 11.1 , 11.5 , 11.6 , 11.7 , 11.8 , 11.9 , 11.10

MECHANICAL SPECIFICATION

Inner Conductor	:	Copper
Diameter Of Inner Conductor	:	1.25 +/- 0.03mm
Outer Braid/Tape	:	No Contact Between Dissimilar Metals
External Diameter over Sheath	:	8.0 +/- 0.4mm
Bending Radius	:	50 mm
Flexing Radius	:	100 mm

ELECTRICAL SPECIFICATION

Nominal Impedance	:	75 Ω +/- 3 Ω
DC Resistance (20° C)	:	Inner < 15 Ω /km Outer < 13.5 Ω /km

Attenuation :

5 MHz	:	< 1.5 dB / 100 m
50 MHz	:	< 3.5 dB / 100 m
100 MHz	:	< 5.0 dB / 100 m
200 MHz	:	< 7.5 dB / 100 m
460 MHz	:	< 11.5 dB / 100 m
860 MHz	:	< 15.5 dB / 100 m
1000 MHz	:	< 17.0 dB / 100 m
1750 MHz	:	< 22.8 dB / 100 m
2150 MHz	:	< 26.0 dB / 100 m

Return Loss :

5 - 30 MHz	:	> 23 dB
30 - 470 MHz	:	> 23 dB
470 - 862 MHz	:	> 20 dB
862 - 2150 MHz	:	> 18 dB

Screening Attenuation :

30 - 470 MHz	:	> 75 dB
470 - 1000 MHz	:	> 75 dB
1000 - 2150 MHz	:	> 65 dB

Screening Attenuation following Flexing Test :

30 - 470 MHz	:	> 65 dB
470 - 1000 MHz	:	> 65 dB
1000 - 2150 MHz	:	> 65 dB

Flexing : Maintain minimum impedance regularity <1%, and screening performance

Static Bend Test : Maintain minimum impedance regularity <1%

Crush Resistance : Maintain impedance regularity <1%

Benchmark Summary : RNE678/165-03 2004 Cable Type 165

STANDARD : BS EN50117-1: 1997 *Coaxial Cables used in cabled distribution networks*

Sections : 10.2.1, 10.2.2, 10.2.4, 10.4, 11.1, 11.5, 11.6, 11.7, 11.8, 11.9, 11.10

MECHANICAL SPECIFICATION

Inner Conductor	:	Copper
Diameter Of Inner Conductor	:	1.63mm +/- 0.1mm
Outer Braid/Tape	:	No Contact Between Dissimilar Metals
External Diameter over Sheath	:	10.1mm +/- 0.3mm
Bending Radius	:	75 mm
Flexing Radius	:	150 mm

ELECTRICAL SPECIFICATION

Nominal Impedance	:	75 Ω +/- 3 Ω
DC Resistance (20° C)	:	Inner < 10.5 Ω /km Outer < 12 Ω /km

Attenuation :

5 MHz	:	< 1.0 dB / 100 m
50 MHz	:	< 3.0 dB / 100 m
100 MHz	:	< 4.0 dB / 100 m
200 MHz	:	< 6.0 dB / 100 m
460 MHz	:	< 9.0 dB / 100 m
860 MHz	:	< 12.5 dB / 100 m
1000 MHz	:	< 13.5 dB / 100 m
1750 MHz	:	< 19.0 dB / 100 m
2150 MHz	:	< 22.0 dB / 100 m

Return Loss :

5 - 30 MHz	:	> 23 dB
30 - 470 MHz	:	> 23 dB
470 - 862 MHz	:	> 20 dB
862 - 2150 MHz	:	> 18 dB

Screening Attenuation :

30 - 470 MHz	:	> 75 dB
470 - 1000 MHz	:	> 75 dB
1000 - 2150 MHz	:	> 65 dB

Screening Attenuation following Flexing Test :

30 - 470 MHz	:	> 65 dB
470 - 1000 MHz	:	> 65 dB
1000 - 2150 MHz	:	> 65 dB

Flexing : Maintain minimum impedance regularity <1%, and screening performance

Static Bend Test : Maintain minimum impedance regularity <1%

Crush Resistance : Maintain impedance regularity <1%