

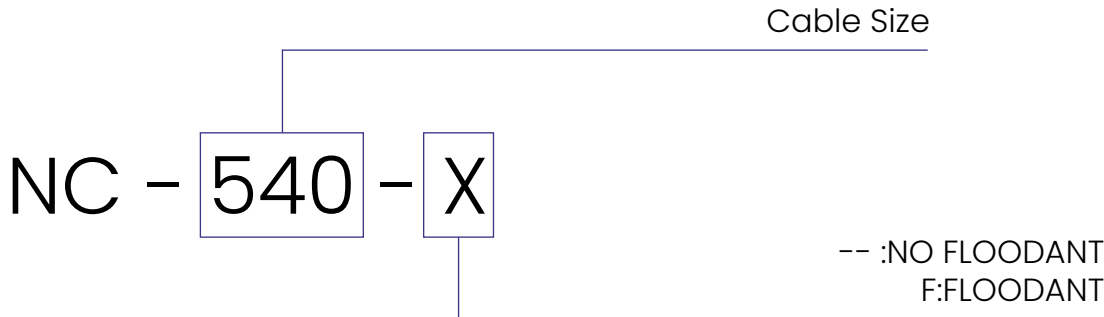
# 540 Coaxial Hardline

## 75 Ohm Trunk Cable



Construction: Swaged Solid Aluminum Tube Onto A Stabilized Dielectric Core With A Fully Bonded Copper Clad Center Conductor And Black Pe Jacket.

## Ordering Information



## Specifications

Center Conductor:  
Copper Clad Aluminum  
Nominal Diameter: 0.124±0.001" (3.15 ±0.03mm)

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Dielectric:  
Micro-Cellular Foam Pe  
Insulation Grade, Virgin Material, Foam Polyethylene  
Nominal Diameter Over Dielectric: 0.514"±0.002" (13.05mm±0.05mm)  
Bonding Force: 68 Lbs. Min.

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Outer Conductor:  
Solid Aluminum Tube  
Nominal Diameter Over Outer Conductor: 0.540" (13.72 Mm)  
Nominal Inner Diameter Of Outer Conductor: 0.513" (13.03mm)  
Nominal Thickness Of Outer Conductor: 0.0135±0.002" (0.34mm±0.05mm)

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Jacket:  
Flame Retardant, Sunlight Resistant, Black, Pe Jacket Uv Stabilized.  
Nominal Diameter Over Jacket (Doj): 0.610" (15.49mm)  
Minimum Point Jacket Thickness: 0.021" (0.53mm)

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Flooding Compound (Only NC540F): Polybutane.

## Material Specifications

Center Conductor Material	Copper-clad aluminum
Dielectric Material	Foam PE
Jacket Material	PE
Outer Conductor Material	Aluminum

## Electrical Properties

Capacitance	50.2 PF/m
Impedance	75 +/- 2.0 Ohms
DC Resistance Note	Nominal values based on a standard condition of 20 °C (68°F)
DC Resistance, inner Conductor, nominal	3.34 ohms/km   1.02 ohms/kft
DC Resistance, Loop, nominal	5.28 ohms/km   1.61 ohms/kft
DC Resistance, Outer Conductor, nominal	1.94 ohms/km   0.59 ohms/kft
Jacket Spark Test Voltage	5000 Vac
Nominal Velocity of Propagation (NVP)	0.87
Operating Frequency Band	5-3000 MHz
Structural Return Loss	30dB@5-1002MHz   24dB@1002-1218MHz   24dB@1218-1794MHz

## Mechanical Specifications

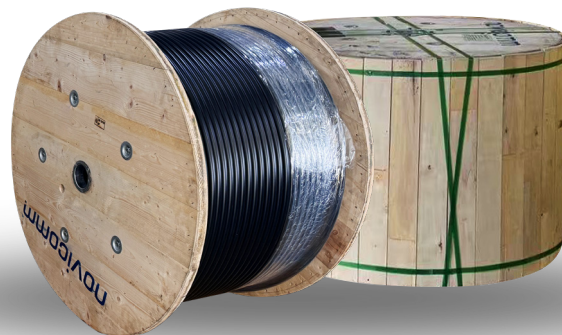
Minimum Bend Radius, bonded	102mm   4in
Pulling Tension, maximum	100 kg   220 lb
Jacket Elongation	≥400%
Installation Temperature	-25°C ~ +60°C
Operating Temperature	-40°C ~ +70°C

ATTENUATION dB/100FT (dB/100m) MAX CORRECTED TO 68° F (20°C):

FREQUENCY (MHz)	(dB/100ft @20 °C)	(dB/100m @20 °C)
5	0.14	0.46
55	0.48	1.56
85	0.58	1.9
211	0.95	3.12
250	1.03	3.38
300	1.13	3.71
350	1.23	4.04
400	1.32	4.33
450	1.4	4.59
500	1.49	4.89
550	1.56	5.12
600	1.64	5.38
750	1.85	6.07
865	2	6.56
1002	2.17	7.12

## Packaging Specifications

- Cable Length per Reel: 2460FT | 750M
- Packaging Dimensions: 35"\*35"\*18.5" | 89\*89\*47 CM
- Shipping Weight per Reel: 127 kg | 280 lbs (NC540)  
131 kg | 288.8 lbs (NC540F)



Unless otherwise specified, dimensions, material, electrical and mechanical Specifications shall comply with ansi scte 15. All images are for reference only.