

DATASHEET

Benelec 305m LL400 Low Loss 50Ohm Spool Low Loss Broadband Communication Cable



CONSTRUCTION

	Material	Diameter
Centre Conductor	Solid Copper Clad Aluminium	2.74 mm
Insulation (Dielectric)	Gas Injected Foamed Polyethylene	7.24mm
Shield 1	Bonded Aluminium Tape	7.39mm
Shield 2	Annealed Tinned Copper Wire Braid	8.13mm
Jacket (Sheath)	Non-Contaminating PVC	10.29 mm
Flexibility	Plasticiser	

MECHANICAL CHARACTERISTICS

Cable Weight (incl. spool)	13.3 Kgs / 100 M
Max recommended pulling tension	72.7 Kgs
Minimum Bend Radius	25.4 mm
Operating Temperature	-40 °C to + 80 °C

ELECTRICAL CHARACTERISTICS

Capacitance	78.4 pF/M
Impedance	50 ± 1 Ω Nom.
Propagation Velocity	85 %
Conductor DCR	4.60 Ω/km
Shield DCR	5.40 Ω/km
Nom Inductance	0.20 uH/m
Peak Power	16 kW
Nominal Delay	5.05 ns/m
Max Operating Voltage	2500 V RMS
Cut Off Frequency	16.2 GHz
Return Loss (820~960 MHz)	≥ 20 dB
Return Loss (1700~2200 MHz)	≥ 20 dB

ATTENUATION AND AVERAGE POWER

Frequency (MHz)	dB / 100 M	Max Power (Watts)
30	2.29	3300
50	2.89	2600
150	4.95	1500
220	6.14	1200
450	8.60	830
900	12.83	580
1500	16.86	440
1800	18.57	400
2000	19.65	370
2500	22.28	330

CABLE MARKINGS

0560413 Benelec 50Ω Low Loss LL400 Type Batch No XXXXX
Mtrs XXXXX

Batch no. is the purchase order number for this shipment.
Marking on the cable is every meter and the meter count increases by one very time the marking is printed.

PACKAGING

Inventory Code	Jacket Colour	Spool Size	Spool Type	Spool Dimensions	Weight
056041	Black	100 mtrs	Wooden	200 x 120 mm	13.3 Kg
0560413	Black	305 mtrs	Wooden	300 x 280 mm	39.9 Kg