



Product: [6662UG](#)

Nurse Call & Paging, #24-3pr, BC, Unshielded, CMP

Product Description

Nurse Call & Paging Cable, Plenum-CMP, 3-24 AWG solid bare copper pairs with FEP insulation, Flamarrest® jacket with ripcord

Technical Specifications

Product Overview

Suitable Applications:	Nurse Call, Commercial Sound, Annunicators, Voice Systems, Paging
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
24	Solid	BC - Bare Copper	3

Conductor Count:	6
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Insulation

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.007 in

Color Chart

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green

Outer Shield

Material
No Shield

Outer Jacket

Material	Material Trade Name	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	Flamarrest®	0.165 in	Yes

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. DCR Unbalance
9.38 Ohm/1000ft	5 %

Capacitance

Max. Capacitance Unbalance	Nom.Mutual Capacitance
330 pF/100m	15 pF/ft

Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
100 MHz	538 ns/100m	45 ns/100m	72%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. SRL (Structural Return Loss)	Max./Min. Fitted Impedance
1 MHz	2 dB/100m	65.3 dB	62.3 dB	63.8 dB	60.8 dB	20 dB	23 dB	100 ± 15 Ohm
4 MHz	4.1 dB/100m	56.3 dB	53.3 dB	51.8 dB	48.8 dB	23 dB	23 dB	100 ± 15 Ohm
8 MHz	5.8 dB/100m	51.8 dB	48.8 dB	45.7 dB	42.7 dB	24.5 dB	23 dB	100 ± 15 Ohm
10 MHz	6.5 dB/100m	50.3 dB	47.3 dB	43.8 dB	40.8 dB	25 dB	23 dB	100 ± 15 Ohm
16 MHz	8.2 dB/100m	47.3 dB	44.3 dB	39.7 dB	36.7 dB	25 dB	23 dB	100 ± 15 Ohm
20 MHz	9.3 dB/100m	45.8 dB	42.8 dB	37.8 dB	34.7 dB	25 dB	23 dB	100 ± 15 Ohm
25 MHz	10.4 dB/100m	44.3 dB	41.3 dB	35.8 dB	32.8 dB	24.3 dB	22 dB	100 ± 15 Ohm
31.25 MHz	11.7 dB/100m	42.9 dB	39.9 dB	33.9 dB	30.9 dB	23.6 dB	21.1 dB	100 ± 15 Ohm
62.5 MHz	17 dB/100m	38.4 dB	35.4 dB	27.8 dB	24.8 dB	21.5 dB	20.9 dB	100 ± 15 Ohm
100 MHz	22 dB/100m	35.3 dB	32.3 dB	23.8 dB	20.8 dB	20.1 dB	16 dB	100 ± 15 Ohm
155 MHz	28.1 dB/100m	32.5 dB	29.5 dB	19.9 dB	16.9 dB	15.8 dB		
200 MHz	32.4 dB/100m	30.8 dB	27.8 dB	17.7 dB	14.7 dB	15 dB		

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Operating Temp Range:	-5°C To +75°C
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Mechanical Characteristics

Bulk Cable Weight:	15.75 lbs/1000ft
Max. Pull Tension:	26 lbs
Min. Bend Radius/Minor Axis:	1.75 in

Standards

CEC/C(UL) Compliance:	CMP
TIA/EIA Compliance:	568-B.2 Category 5e
Other Specification:	NEMA WC-63.1 Category 5e, UL Verified to Category 5e

Applicable Environmental and Other Programs

Environmental Space:	Plenum
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Non-Plenum Number:	5662UG
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Variants

Item #	Color	Put-Up Type	Length	UPC
6662UG F6H1000	Gray, Dark Pearl	Reel	1,000 ft	612825179016

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e.
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Update and Revision:	Revision Number: 0.164 Revision Date: 12-15-2021
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