



Product: [DLC224](#)

DMX Lighting Cable, 4 Cond, 24 AWG Stranded TC

Product Description

Gepco a Belden Brand, Flexible DMX512 Lighting Control Cable, 4 Conductor 24 AWG (7x32) stranded tinned copper, Foam PE insulation, foil shield plus 90% TC braid with 24 AWG stranded TC drain wire, all weather TPE jacket.

Technical Specifications

Product Overview

Suitable Applications:	RS-485, DMX-512
------------------------	-----------------

Physical Characteristics (Overall)

Conductor			
AWG	Stranding	Material	No. of Conductors
24	7x32	TC - Tinned Copper	4
Conductor Count:			4

Insulation	
Material	Nominal Wall Thickness
PE - Polyethylene	0.022 in

Color Chart	
Number	Color
1	Black
2	White
3	Red
4	Blue

Outer Shield						
Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	24
Braid		Tinned Copper (TC)		90%		

Outer Jacket		
Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.27 in	0.042 in

Electrical Characteristics

Conductor DCR	
Nominal Conductor DCR	Nominal Outer Shield DCR
24 Ohm/1000ft	2.2 Ohm/1000ft

Capacitance	
Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
10.4 pF/ft	18.7 pF/ft

Impedance

Nominal Characteristic Impedance
120 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.6 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66%

Current

Max. Recommended Current [A]
2.1 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	80°C
Operating Temperature Range:	-30°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	49 lbs/1000ft
Max. Pull Tension:	87 lbs
Min. Bend Radius/Minor Axis:	2.7 in

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
DLC224.99	Black	Reel		612825406341
DLC224.41	Black	Reel	1,000 ft	612825391241

History

Update and Revision:	Revision Number: 0.133 Revision Date: 12-20-2022
----------------------	--

regulations based on their individual usage of the product.