# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



# 540BUE Multi-Conductor - Commercial Applications



For more Information please call

1-800-Belden1



## **General Description:**

Security & Alarm Cable, Riser-CMR, 20-20 AWG stranded bare copper conductors with PVC insulation, PVC jacket with ripcord

20

## **Usage (Overall)**

Suitable Applications:

Security Systems, Intercom/PA Systems, Sound/Audio Systems, Power Limited Controls, and Single Line Telephone.

# **Physical Characteristics (Overall)**

## Conductor

#### AWG:

# Conductors	AWG	Stranding	Conductor Material
20	20	7x28	BC - Bare Copper

Total Number of Conductors:

#### Insulation

#### **Insulation Material:**

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.254

# **Outer Shield**

#### **Outer Shield Material:**

# Outer Shield Material Unshielded

#### **Outer Jacket**

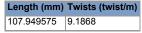
#### **Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.635

Outer Jacket Ripcord: Yes

## Overall Cable

## Overall Cabling Lay Length & Direction:



#### **Overall Cabling Color Code Chart:**

Number	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Gray
11	Pink
12	Tan

Page 1 of 3 11-08-2019

# **Detailed Specifications & Technical Data**

#### **METRIC MEASUREMENT VERSION**



## 540BUE Multi-Conductor - Commercial Applications

13	White/Black		
14	White/Red		
15	White/Green		
16	White/Orange		
17	White/Blue		
18	White/Brown		
19	White/Yellow		
20	White/Purple		

8.814 mm **Overall Nominal Diameter:** 

Mechanical (	Characteristics (	(Overall)
--------------	-------------------	-----------

Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	147.778 Kg/Km
Max. Recommended Pulling Tension:	1120.950 N
Min. Bend Radius/Minor Axis:	88.900 mm

## **Applicable Specifications and Agency Compliance (Overall)**

## **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMR
NEC Articles:	800
CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

#### Fla

	UL Flame Test:	UL1666 Vertical Shaft
C(UL) Flame Test: F14	C(UL) Flame Test:	FT4

## Plenum/Non-Plenum

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

## **Electrical Characteristics (Overall)**

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 85.306

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 33.4662

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



## 540BUE Multi-Conductor - Commercial Applications

1.9 Amps per conductor @ 25°C

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
540BUE 0081000	1,000 FT	110.000 LB	GRAY		20 #20 PVC PVC

Revision Number: 1 Revision Date: 03-11-2013

© 2019 Belden, Inc All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

Page 3 of 3 11-08-2019