# **Detailed Specifications & Technical Data**



# 5545FE Multi-Conductor - Commercial Applications

For more Information please call

1-800-Belden1



# **Description:**

22 AWG bare copper conductors, PP insulation, conductors twisted into pairs, multiple pairs cabled together, overall Beldfoil® shield (foil side out) and drain wire, overall PVC jacket with rip cord. Sequential footage marking every two feet.

Physical Characteristics (Overall) Conductor AWG: # Pais AWG Stranding Conductor Material B 22 X30 BC-Bare Copper Insulation Material Insulation Material Wall Thickness (in) PP-Polypropylene 0.007 Outer Shield Material: Outer Shield Material: Outer Shield Material: Outer Shield Trafe Name Outer Shield Material Bedfoli® Aluminum Foil-Polyester Tape Outer Shield Trafe Name Outer Shield Material Bedfoli® Aluminum Foil-Polyester Tape Outer Shield Trafe Name Outer Shield Material 24 TC - Tinned Copper Outer Jacket Outer Jacket Material: Outer Jacket Material:		
# Pairs AWG Stranding Conductor Material   6 22   7x30 BC-Bare Copper   Insulation Material Wall Thickness (in) PP - Polypropylene 0.007  Outer Shield Material:  Outer Shield Trade Name Outer Shield Material Beldforder Table Outer Shield Trade Name Outer Shield Material Beldforder Shield Trade Name Outer Shield Material Beldforder Shield Trade Name Outer Shield Material Outer Shield Drain Wire AWG: AWG Drain Wire Conductor Material 24 To - Tinned Copper Outer Shield Trade Name Intrictions (in) PVC - Polyvinyl Chloride [0.018 Overall Cable Overall Nominal Diameter: 0.253 in. Pair Pair Pair Pair Color Code Chart: Number Color 1 Black & Red 2 Black & Breon 3		
8       22       7x30       BC - Bare Copper         Insulation Material:         Insulation Material       Insulation Material         PP - Polypropylene [0:007       Otter Shield Material:         Outer Shield Material:       Muminum Foil-Polyester Tape         Outer Shield Drain Wire AWG:       Auminum Foil-Polyester Tape         Outer Shield Drain Wire Conductor Material       Auminum Foil-Polyester Tape         Outer Jacket       Mure Conductor Material         24       TC - Tinned Copper         Outer Jacket Material:       Outer Jacket Material         Outer Jacket Material:       Outer Jacket Material         Over Jacket Material:       Outer Jacket Material:         Overall Cable       0.253 in.         Pair       Pair Color Code Chart:         Number Color       1         1       Black & Red         2       Black & Red         3       Black & Brown         4       Black & Brown		
Insulation Material: Insulation Material: Insulation Material: PP - Polypropylene 0.007 Outer Shield Outer Shield Material: Outer Shield Material: Outer Shield Drain Wire AWG: AWG Drain Wire Conductor Material Bekdfolf® Aluminum Foil-Polyester Tape Outer Jacket Outer Jacket Material: Outer Jacket Materia		
Insulation Material: Insulation Material Wall Thickness (in.) PP - Polypropytene 0.007 Outer Shield Material: Outer Shield Material: Outer Shield Material: Aluminum Foil-Polyester Tape Outer Shield Drain Wire Conductor Material 24 TC - Tinned Copper Outer Jacket Material: Outer Jacke	6 22 7x30 BC - Bare Copper	
PP - Polypropylene       0.007         Outer Shield       Outer Shield Material:         Outer Shield Trade Name       Outer Shield Material         Beldfoil®       Aluminum Foil-Polyester Tape         Outer Shield Drain Wire AWG:       AWG Drain Wire Conductor Material         24       TC - Tinned Copper         Outer Jacket       Outer Jacket Material:         Outer Jacket Material       Nom. Wall Thickness (in.)         PVC - Polyvinyl Chloride       0.018         Overall Cable       0.253 in.         Pair       Pair Color Code Chart:         Number Color       1         Black & Red       Black & Green         4       Black & Streen         4       Black & Streen         4       Black & Streen		
Outer Shield         Outer Shield Material:         Outer Shield Trade Name Outer Shield Material         Beldfoli®       Aluminum Foil-Polyester Tape         Outer Shield Drain Wire AWG:         AWG Drain Wire Conductor Material         24       TC - Tinned Copper         Outer Jacket         Outer Jacket Material:         Outer Jacket Material:         Overall Cable         Overall Nominal Diameter:       0.253 in.         Pair         Pair Color Code Chart:         Number Color         1       Black & Red         2       Black & Green         4       Black & Slue         5       Black & Slew         6       Black & Slew	Insulation Material Wall Thickness (in.)	
Outer Shield Material:         Outer Shield Trade Name Outer Shield Material         Beldfoll®       Aluminum Foil-Polyester Tape         Outer Shield Drain Wire CMQ:         AWG Drain Wire Conductor Material         24       TC - Tinned Copper         Outer Jacket Material:         Outer Jacket Material:         Outer Jacket Material:         Outer Jacket Material         Outer Jacket Material:         Outer Jacket Material         Outer Jacket Material         Overall Cable         Overall Nominal Diameter:       0.253 in.         Pair         Pair Color Code Chart:         Number Color         1       Black & Red         2       Black & Red         3       Black & Red         3       Black & Blue         5       Black & Blue         5       Black & Bleow         6       Black & Bleow	PP - Polypropylene 0.007	
Outer Shield Material:         Outer Shield Trade Name Outer Shield Material         Beldfoll®       Aluminum Foil-Polyester Tape         Outer Shield Drain Wire CMQ:         AWG Drain Wire Conductor Material         24       TC - Tinned Copper         Outer Jacket Material:         Outer Jacket Material:         Outer Jacket Material:         Outer Jacket Material         Outer Jacket Material:         Outer Jacket Material         Overall Cable         Overall Nominal Diameter:       0.253 in.         Pair         Pair Color         Pair Solor Code Chart:         3       Black & Red         3       Black & Red         3       Black & Red         3       Black & Blue         5       Black & Blue         6       Black & Blown		
Outer Shield Trade Name Outer Shield Material         Beldfoil®       Aluminum Foil-Polyester Tape         Outer Shield Drain Wire AWG:         AWG Drain Wire Conductor Material         24       TC - Tinned Copper         Outer Jacket         Outer Jacket Material         Overall Cable         Overall Nominal Diameter:       0.253 in.         Pair         Pair Color Code Chart:         Number Color         1       Black & Red         2       Black & Red         3       Black & Streen         4       Black & Blow         5       Black & Brown		
Beldfoll@ Aluminum Foil-Polyester Tape   Outer Shield Drain Wire AWG:   AWG Drain Wire Conductor Material   24   TC - Tinned Copper   Outer Jacket Material:   Overall Cable   Overall Nominal Diameter:   O.253 in.   Pair Color Code Chart:   Number Color   1   Black & Red   2   Black & Vellow   5   Black & Vellow   6   Black & Brown		
Outer Shield Drain Wire AWG:         AWG Drain Wire Conductor Material         24       TC - Tinned Copper         Outer Jacket Material:         Outer Jacket Material:         Outer Jacket Material:         Overall Cable         Overall Nominal Diameter:       0.253 in.         Pair         Pair Color Code Chart:         1       Black & Red         2       Black & Red         3       Black & Red         3       Black & Brown		
AWG Drain Wire Conductor Material         24       TC - Tinned Copper         Outer Jacket         Outer Jacket Material:         Outer Jacket Material         Nom. Wall Thickness (in.)         PVC - Polyvinyl Chloride         0.018         Overall Cable         Overall Nominal Diameter:       0.253 in.         Pair         Pair Color Code Chart:         1       Black & Red         2       Black & Blue         3       Black & Blue         5       Black & Blue         5       Black & Blue         5       Black & Brown	Beldfoil® Aluminum Foil-Polyester	л Таре
24       TC - Tinned Copper         Outer Jacket Material:         Outer Jacket Material       Nom. Wall Thickness (in.)         PVC - Polyvinyl Chloride       0.018         Overall Cable         Overall Nominal Diameter:       0.253 in.         Pair Color Code Chart:         Pair Color Code Chart:       1         1       Black & Red         2       Black & White         3       Black & Breen         4       Black & Breen         5       Black & Breen         5       Black & Breen	Outer Shield Drain Wire AWG:	
24       TC - Tinned Copper         Outer Jacket Material:         Outer Jacket Material       Nom. Wall Thickness (in.)         PVC - Polyvinyl Chloride       0.018         Overall Cable         Overall Nominal Diameter:       0.253 in.         Pair Color Code Chart:         Pair Color Code Chart:       1         Black & Red       2         Black & Blue       5         5       Black & Pellow         6       Black & Brown	AWG Drain Wire Conductor Material	
Outer Jacket         Outer Jacket Material:         Outer Jacket Material         Nom. Wall Thickness (in.)         PVC - Polyvinyl Chloride         0.18         Overall Cable         Overall Nominal Diameter:       0.253 in.         Pair         Pair Color Code Chart:         Number Color         1       Black & Red         2       Black & Green         4       Black & Green         4       Black & Blue         5       Black & Brown		
Outer Jacket Material:         Outer Jacket Material         Nom. Wall Thickness (in.)         PVC - Polyvinyl Chloride         0.018         Overall Cable         Overall Nominal Diameter:         0.253 in.		
Outer Jacket Material       Nom. Wall Thickness (in.)         PVC - Polyvinyl Chloride       0.018         Overall Cable       Overall Nominal Diameter:       0.253 in.         Pair       Pair Color Code Chart:       Number Color         1       Black & Red       2         2       Black & Red       2         3       Black & Green       4         4       Black & Blue       5         5       Black & Pellow       6	Outer Jacket	
PVC - Polyvinyl Chloride       0.018         Overall Cable       0.253 in.         Overall Nominal Diameter:       0.253 in.         Pair       Pair Color Code Chart:         Number Color       1         1       Black & Red         2       Black & Red         3       Black & Green         4       Black & Blue         5       Black & Brown	Outer Jacket Material:	
Overall Cable Overall Nominal Diameter: 0.253 in. Pair Pair Color Code Chart:          Number Color         1       Black & Red         2       Black & Red         3       Black & Green         4       Black & Blue         5       Black & Brown	Outer Jacket Material Nom. Wall Thickness (in	.)
Overall Nominal Diameter:       0.253 in.         Pair       Pair Color Code Chart:         Number Color       1         1       Black & Red         2       Black & Red         3       Black & Green         4       Black & Blue         5       Black & Yellow         6       Black & Brown	PVC - Polyvinyl Chloride 0.018	
Overall Nominal Diameter:       0.253 in.         Pair       Pair Color Code Chart:         Number Color       1         1       Black & Red         2       Black & Red         3       Black & Green         4       Black & Blue         5       Black & Yellow         6       Black & Brown		
Pair Color Code Chart: Number Color 1 Black & Red 2 Black & White 3 Black & Green 4 Black & Blue 5 Black & Yellow 6 Black & Brown		
Number Color1Black & Red2Black & White3Black & White4Black & Blue5Black & Yellow6Black & Brown	Overall Nominal Diameter:	0.253 in.
Number Color1Black & Red2Black & White3Black & White4Black & Blue5Black & Yellow6Black & Brown	Pair	
1Black & Red2Black & White3Black & Green4Black & Blue5Black & Yellow6Black & Brown	Pair Color Code Chart:	
2Black & White3Black & Green4Black & Blue5Black & Yellow6Black & Brown	Number Color	
3Black & Green4Black & Blue5Black & Yellow6Black & Brown	1 Black & Red	
3Black & Green4Black & Blue5Black & Yellow6Black & Brown	2 Black & White	
5     Black & Yellow       6     Black & Brown		
6 Black & Brown	4 Black & Blue	
6 Black & Brown		
	5 Black & Yellow	
lechanical Characteristics (Overall)		
Operating Temperature Range: -20°C To +75°C		

Operating Temperature Range:	-20°C To +75°C		
Bulk Cable Weight:	44.100 lbs/1000 ft.		
Max. Recommended Pulling Tension:	114.700 lbs.		
Min. Bend Radius (Install)/Minor Axis:	2.500 in.		

# **Detailed Specifications & Technical Data**



ENGLISH MEASUREMENT VERSION

# 5545FE Multi-Conductor - Commercial Applications

NEC/(UL) Specification:	cams CMR		
CEC/C(UL) Specification:	CMG		
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		
ame Test			
UL Flame Test:	UL1666 Vertical Shaft		
CSA Flame Test:	FT4		
enum/Non-Plenum			
Plenum (Y/N):	No		
Plenum Number:	6545FE		

#### Surface Printing (Overall)

## **Electrical Characteristics (Overall)**

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

25.750

## Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

46.500

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

16.3

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

14.400

Max. Operating Voltage - UL:

Voltage 300 V RMS

# Max. Recommended Current:

Current 2 Amps per conductor @ 25°C

#### **Related Documents:**

No related documents are available for this product

# Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5545FE 0081000	1,000 FT	43.000 LB	GRAY	С	6 PR #22 PP FS FRPVC

Notes:

C = CRATE REEL PUT-UP.



# ENGLISH MEASUREMENT VERSION

# 5545FE Multi-Conductor - Commercial Applications

**Revision Number: 3** Revision Date: 04-06-2009

© 2012 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 73/23/EEC), as amended by directive 93/68/EEC.