Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

5502FE Multi-Conductor - Commercial Applications

For more Information
please call

1-800-Belden1

General Description:

Security & Alarm Cable, Riser-CMR, 4-22 AWG stranded bare copper conductors with polyolefin insulation, Beldfoil® shield and PVC jacket with ripcord

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
4	22	7x30	BC - Bare Copper

Total Number of Conductors:	4

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PP - Polypropylene	0.203

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape w/Shorting Fold	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.432

Outer Jacket Ripcord:	Yes

Overall Cable

Overall Cabling Lay Length & Direction:

Length (mm)	Direction	Twists (twist/m)
63.500	Left Hand	15.749

Overall Cabling Color Code Chart:

Color
Black
Red
White
Green

Overall Nominal Diameter:	3.683 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	25.299 Kg/Km

Max. Recommended Pulling Tension:	186.824 N
Min. Bend Radius/Minor Axis:	34.925 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

Flame Test

UL Flame Test:	UL1666 Vertical Shaft
CSA Flame Test:	FT4

Suitability

Suitability - Indoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	6502FE

Surface Printing (Overall)

Surface Printing:	NEW GENERATION(R) BY BELDEN 5502FE CMR 75C 4C22 SHIELDED (UL) E108998 OR C(UL) CMG---FT4 (2 FT., 7 DIGIT SEQUENTIAL) FEET

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
73.823

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
132.881

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
53.8084

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
52.8241

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
2.2 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5502FE 008U1000	1,000 FT	19.000 LB	GRAY		4 #22 PP FS FRPVC
5502FE 008U500	500 FT	9.500 LB	GRAY		4 #22 PP FS FRPVC
5502FE 008Z1000	1,000 FT	20.000 LB	GRAY		4 #22 PO FS FRPVC
5502FE 0081000	1,000 FT	18.000 LB	GRAY	C	4 #22 PP FS FRPVC
5502FE 008500	500 FT	9.500 LB	GRAY		4 #22 PP FS FRPVC

Notes:
C = CRATE REEL PUT-UP.

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