

558AFS Composite - Lock Power, Card Reader, Door Contact, REX Applications



For more Information
please call

1-800-Belden1

**Description:**

18 AWG stranded bare copper conductors, PP insulation, PVC jackets, no overall jacket, all cables are Beldfoil® shielded, cable jackets are color coded by application, individual jacket is sequentially marked at two foot intervals.

Usage (Overall)

Suitable Applications: Access Control

Twisted Pair**Physical Characteristics****Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
3	22	7x30	BC - Bare Copper	0.030

Insulation**Insulation Material:**

Insulation Material	Wall Thickness (in.)
PP - Polypropylene	0.007

Inner Jacket**Inner Jacket Color Code Chart:**

Number	Color
Card Reader 1	Black and Red
Card Reader 2	White and Green
Card Reader 3	Orange and Brown

Individual Shield**Outer Shield****Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000

Outer Shield Drain Wire AWG:

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

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
F-R PVC - Flame Retardant Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)
0.211

Outer Jacket Ripcord: Yes

Outer Jacket Color Code Chart:

Number	Color
Card Reader	Orange

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Applicable Specifications and Agency Compliance
Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

Flame Test

UL Flame Test: UL1666 Vertical Shaft

Suitability

Suitability - Indoor: Yes

Electrical Characteristics**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)
45.000

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
25.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
16.300

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 13.900 Ohm/1000 ft

Max. Operating Voltage - Other:

Voltage	Description
null	300 V RMS

Max. Recommended Current:

Description	Current
Card Reader	2

Multi Conductor**Physical Characteristics****Conductor****AWG:**

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
2	22	7x30	BC - Bare Copper	0.030
4	22	7x30	BC - Bare Copper	0.030
4	18	7x26	BC - Bare Copper	0.047

Insulation**Insulation Material:**

Insulation Material	Wall Thickness (in.)	AWG
PP - Polypropylene	0.007	22
PP - Polypropylene	0.007	18

Insulation Color Code Chart:

Color	Description
Black	Door Contact 1
Red	Door Contact 2
Black	Rex/Spare 1
Red	Rex/Spare 2
White	Rex/Spare 3
Green	Rex/Spare 4
Black	Lock/Power 1
Red	Lock/Power 2
White	Lock/Power 3
Green	Lock/Power 4

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Individual Shield

Outer Shield

Outer Shield Material:

AWG	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)	Description
22	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000	Door Contact
22	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000	Rex/Spare
18	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000	Lock/Power

Outer Shield Drain Wire AWG:

Component	AWG	Stranding	Drain Wire Conductor Material
Door Contact	24	7x32	TC - Tinned Copper
Rex/Spare	24	7x32	TC - Tinned Copper
Lock/Power	24	7x32	TC - Tinned Copper

Outer Jacket

Outer Jacket Diameter:

Component #	Nom. Dia. (in.)
Door Contact	0.127
Rex/Spare	0.145
Lock/Power	0.186

Outer Jacket Ripcord: Yes

Outer Jacket Color Code Chart:

Number	Color
Door Contact	White
Rex/Spare	Blue
Lock/Power	Gray

 Applicable Specifications and Agency Compliance
 Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

Flame Test

UL Flame Test: UL1666 Vertical Shaft

Suitability

Suitability - Indoor: Yes

Electrical Characteristics

Nom. Capacitance Conductor to Shield:

Description	Freq. (MHz)	Capacitance (pF/ft)
Door Contact	1.000	69.000
Rex/Spare	1.000	43.250
Lock Power	1.000	51.250

Nom. Capacitance Conductor to Conductor:

Description	Freq. (MHz)	Capacitance (pF/ft)
Door Contact	1.000	38.250
Rex/Spare	1.000	24.000
Lock Power	1.000	28.500

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
Door Contact	16.400
Rex/Spare	16.400
Lock Power	6.500

Nom. Inner Shield DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
Door Contact	16.100
Rex/Spare	16.100
Lock Power	7.200

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Max. Operating Voltage - Other:

Voltage
300 V RMS

Max. Recommended Current:

Description	Current
Door Contact	2.2 Amps
Rex/Spare	2.2 Amps
Lock Power	4 Amps

Physical Characteristics (Overall)

Conductor

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
Unjacketed

Overall Cable

Overall Nominal Diameter: 0.448 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: 0°C To +75°C

Bulk Cable Weight: 95.000 lbs/1000 ft.

Max. Recommended Pulling Tension: 200.000 lbs.

Min. Bend Radius (Install)/Minor Axis: 4.400 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 658AFS

Notes (Overall)

Notes: Cold environment installation: When installing cables that have been stored at ambient temperatures of 32 degrees Fahrenheit (0 degrees Centigrade) or lower, Belden recommends conditioning of the cable for 12 hours at room temperature prior to individual cable leg separation. Banana Peel® US PATENT 7049523.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
558AFS 0001000	1,000 FT	106.000 LB	NONE	C	4C18 + 4C22 + 3P22 + 2C22 SHLD
558AFS 000500	500 FT	53.500 LB	NONE	C	4C18 + 4C22 + 3P22 + 2C22 SHLD

Notes:

C = CRATE REEL PUT-UP.

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