METRIC MEASUREMENT VERSION



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

Picture Not Available For more Information please call

1-800-Belden1



General Description:

Access Control Cable, Riser-CMR, 4-18 AWG conductors, 6-22 AWG conductors with Beldfoil® shield, 4-22 AWG conductors, 4-22 AWG conductors, All conductors stranded bare copper with FR-PVC insulation, Each cable has PVC jacket, Banana Peel® No overall jacket

Access Control

Usage (Overall)

Suitable Applications:

Twisted Pair

Physical Characteristics Individual Shield

Multi Conductor

Physical Characteristics

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
4	22	7x30	BC - Bare Copper	0.737
4	22	7x30	BC - Bare Copper	0.737
6	22	7x30	BC - Bare Copper	0.737
4	18	7x26	BC - Bare Copper	1.168

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)	Dia. (mm)	AWG
PVC - Polyvinyl Chloride	0.254	1.245	22
PVC - Polyvinyl Chloride	0.254	1.676	18

Insulation Color Code Chart:

Number	Color	Description
1	Black	Door Contact 1
2	Red	Door Contact 2
3	White	Door Contact 3
4	Green	Door Contact 4
5	Black	Rex/Spare 1
6	Red	Rex/Spare 2
7	White	Rex/Spare 3
8	Green	Rex/Spare 4
9	Black	Lock/Power 1
10	Red	Lock/Power 2
11	White	Lock/Power 3
12	Green	Lock/Power 4
13	Black	Card Reader 1
14	Red	Card Reader 2
15	White	Card Reader 3
16	Green	Card Reader 4
17	Yellow	Card Reader 5
18	Orange	Card Reader 6

Individual Shield

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)	Description
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000	Card Reader

Outer Shield Drain Wire AWG:

Component	AWG	Stranding	Drain Wire Conductor Material
Card Reader	24	7X32	TC - Tinned Copper

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Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)	
PVC	0.508	

Outer Jacket Diameter:

Component #	Nom. Dia. (mm)
Door Contact	4.013
Rex/Spare	4.013
Reader	4.801
Lock/Power Card	5.029

Outer Jacket Ripcord:

Yes

Outer Jacket Color Code Chart:

Number	Color	Description
1	White	Door Contact
2	Blue	Rex/Spare
3	Orange	Card Reader
4	Gray	Lock/Power

Mechanical Characteristics

-20°C To +75°C **Operating Temperature Range: UL Temperature Rating:** 75C

Applicable Specifications and Agency Compliance

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR	
NEC Articles:	800	
CEC/C(UL) Specification:	CMG	
Flame Test		

UL Flame Test: UL1666 Vertical Shaft

Suitability

Suitability - Indoor:

Electrical Characteristics

Nom. Capacitance Conductor to Shield:

Description	Freq. (MHz)	Capacitance (pF/m)
Card Reader	0.001	183.736

Nom. Capacitance Conductor to Conductor:

Description	Freq. (MHz)	Capacitance (pF/m)
Door Contact	0.001	78.744
Rex/Spare	0.001	78.744
Card Reader	0.001	101.711
Lock Power	0.001	95.149

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
Door Contact	52.824
Rex/Spare	52.824
Card Reader	53.480
Lock Power	21.327

Nominal Outer Shield DC Resistance:

Description	DCR @ 20°C (Ohm/km)
Card Reader	45.606

Max. Operating Voltage - UL:

Voltage Description 300V UL type CMR

Max. Recommended Current:

Description	Current			
Door Contact	2.8 Amps @ 25C ambient (10C temperature rise)			
Rex/Spare	2.8 Amps @ 25C ambient (10C temperature rise)			
Card Reader	2.0 Amps @ 25C ambient (10C temperature rise)			
Lock Power	4.0 Amps @ 25C ambient (10C temperature rise)			

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Physical Characteristics (Overall)

Conductor

Outer Shield

Outer Shield Material:

Outer Shield Material Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material Unjacketed

Overall Cable

Overall Nominal Diameter:

10.795 mm

Mechanical Characteristics (Overall)

Bulk Cable Weight:	139.891 Kg/Km
Max. Recommended Pulling Tension:	965.259 N
Min. Bend Radius/Minor Axis:	107.950 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 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

Applicable Patents:

Country www.belden.com/p

Flame Test

	UL Flame Test:	UL1666 Vertical Shaft	
	C(UL) Flame Test:	FT4	
Sui	itability		
	Suitability - Indoor:	Yes	
Ple	num/Non-Plenum		
	Plenum (Y/N):	No	
	Plenum Number:	658GMS	

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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
558GMS 0001000	1,000 FT	103.000 LB	NONE	С	4C22+4C22+6C22FS+4C18 CMR BP

Notes: C = CRATE REEL PUT-UP.

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