



Product: [558GMS](#)

Access Control, 18c (#18-4c, #22-6c Foil, #22-4, #22-4), CMR, Banana Peel®

Product 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

Technical Specifications

Product Overview

Suitable Applications:	Access Control, Security System, Power Limited Controls
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/patents .

Construction Details

Conductor

Element Description	Element	No. of Elements	Size	Stranding	Material
Card Reader	Conductor(s)	6	22 AWG	7x30	BC - Bare Copper
Door Contact	Conductor(s)	4	22 AWG	7x30	BC - Bare Copper
REX/Spare	Conductor(s)	4	22 AWG	7x30	BC - Bare Copper
Lock Power	Conductor(s)	4	18 AWG	7x26	BC - Bare Copper

Insulation

Element Description	Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Card Reader	Conductor(s)	PVC - Polyvinyl Chloride	0.010 in (0.25 mm)	0.049 in (1.2 mm)	Black, Red, White, Green, Yellow, Orange
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	0.010 in (0.25 mm)	0.049 in (1.2 mm)	Black, Red, White, Green
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	0.010 in (0.25 mm)	0.049 in (1.2 mm)	Black, Red, White, Green
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.10 in (2.5 mm)	0.066 in (1.7 mm)	

Inner Shield

Element Description	Element	Shield Type	Material	Coverage	Drainwire Type
Card Reader	Conductor(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Door Contact	Conductor(s)	No Shield			
REX/Spare	Conductor(s)	No Shield			
Lock Power	Conductor(s)	No Shield			

Inner Jacket

Element Description	Element	Material	Nom. Thickness	Nom. Diameter	Ripcord	Color
Card Reader	Conductor(s)	PVC - Polyvinyl Chloride	0.020 in (0.51 mm)	0.189 in (4.80 mm)	Yes	Orange
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	0.020 in (0.51 mm)	0.158 in (4.01 mm)	Yes	White
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	0.020 in (0.51 mm)	0.158 in (4.01 mm)	Yes	Blue
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.020 in (0.51 mm)	0.198 in (5.03 mm)	Yes	Gray
	Lock/Power Card					

Outer Jacket

Material	No Jacket
Overall Cable Diameter (Nominal):	0.425 in (10.8 mm)

Electrical Characteristics

Electricals

Element Description	Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Max. Current
Card Reader	Conductor(s)	16.3 Ohm/1000ft	13.9 Ohm/1000ft (45.6 Ohm/km)	31 pF/ft (100 pF/m)	56 pF/ft (180 pF/m)	4.2 Amps per Conductor @ 25°C
Door Contact	Conductor(s)	16.1 Ohm/1000ft (52.8 Ohm/km)		46 pF/ft (150 pF/m)		4.8Amps per Conductor at 25°C
REX/Spare	Conductor(s)	16.3 Ohm/1000ft (53.5 Ohm/km)		46 pF/ft (150 pF/m)		10.5 Amps per Conductor at 25°C
Lock Power	Conductor(s)	6.5 Ohm/1000ft (21 Ohm/km)		30 pF/ft (98 pF/m)		11.2 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	0°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
4.25 in (108 mm)	4.25 in (108 mm)

Max. Pull Tension:	217 lbs (98.4 kg)
Bulk Cable Weight:	94 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	UL 1666 Riser
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMR
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	658GMS

Product Notes

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.
--------	--

History

Update and Revision:	Revision Number: 0.473 Revision Date: 02-03-2025
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
558GMS 0001000	Orange, White, Blue, Gray	Reel	1,000 ft	612825164517	C

© 2025 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 here in 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 "ASIS" 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 all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information 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. The 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.