Belden



Product: 658GMS

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

Product Description

Access Control Cable, Plenum-CMP, 6-22 AWG conductors with Beldfoil® shield, 4-22 AWG conductors, 4-22 AWG conductors, 4-18 AWG conductors, All conductors stranded bare copper with Flamarrest® insulation, Each cable has Flamarrest® 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	0.009 in (0.23 mm)	0.047 in (1.2 mm)	Black, Red, White, Green, Brown, Blue
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	0.009 in (0.23 mm)	0.064 in (1.6 mm)	Black, Red, White, Green
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	0.009 in (0.23 mm)	0.064 in (1.6 mm)	Black, Red, White, Green
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.010 in (0.25 mm)	0.047 in (1.2 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	0.017 in (0.43 mm)	0.179 in (4.55 mm)	Yes	Orange
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	0.017 in (0.43 mm)	0.147 in (3.73 mm)	Yes	White
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	0.017 in (0.43 mm)	0.19 in (4.8 mm)	Yes	Blue
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.017 in (0.43 mm)	0.19 in (4.8 mm)	Yes	Gray

Outer Jacket

Nom. Diameter
0.401 in (10.2 mm)

Outer Jacket1 Table Notes:	Banana Peel®
Overall Cable Diameter (Nominal):	0.401 in (10.2 mm)

Electrical Characteristics

Electricals

Element Description	Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Card Reader	Conductor(s)	16.4 Ohm/1000ft	16.19 Ohm/1000ft (53.12 Ohm/km)	33 pF/ft (110 pF/m)	60 pF/ft (200 pF/m)		2.2 Amps per Conductor at 25ºC
Door Contact	Conductor(s)	16.4 Ohm/1000ft (53.8 Ohm/km)		25 pF/ft (82 pF/m)	60 pF/ft (200 pF/m)		2.2 Amps per Conductor at 25ºC
REX/Spare	Conductor(s)	16.4 Ohm/1000ft (53.8 Ohm/km)		25 pF/ft (82 pF/m)			2.2 Amps per Conductor at 25ºC
Lock Power	Conductor(s)	6.5 Ohm/1000ft (21 Ohm/km)		30 pF/ft (98 pF/m)		60 pF/ft (200 pF/m)	4 Amps per Conductor at 25ºC

Nom Outer Shield DCR@Cond DCR1-cnv:	6.92 Ohm/1000ft (22.7 Ohm/km)

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
4.01 in (102 mm)	4.01 in (102 mm)

Max. Pull Tension:	213 lbs (96.6 kg)
Bulk Cable Weight:	94 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
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)
Non-Plenum Number:	558GMS

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: 0.489 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
658GMS 0001000	Orange, White, Blue, Gray	Reel	1,000 ft	612825178668	C

Footnote:	C - CRATE REEL PUT-UP.

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