

Part Number: 658GMS



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

Product Description

Access Control Cable, Plenum-CMP, 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 Flamarrest® insulation, Each cable has Flamarrest® jacket, Banana Peel® No overall jacket

Technical Specifications

Product Overview

Suitable Applications:	Access Control, Access Control Doors, Lock Power, Card Reader, Door Contract, REX/Spare
------------------------	---

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors
Door Contact	22	7x30	BC - Bare Copper	0.029 in	4
Rex/Spare	22	7x30	BC - Bare Copper	0.029 in	4
Lock Power	18	7x26	BC - Bare Copper	0.047 in	4
Card Reader	22	7x30	BC - Bare Copper	0.029 in	6

Conductor Count:	18
------------------	----

Insulation

Element	Material	Material Trade Name	Nominal Diameter
22	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.047 in
18	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.064 in
	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.064 in
	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.047 in

Color Chart

Number	Color
Door Contact 1	Black
Door Contact 2	Red
Door Contact 3	White
Door Contact 4	Green
Rex/Spare 1	Black
Rex/Spare 2	Red
Rex/Spare 3	White
Rex/Spare 4	Green
Lock/Power 1	Black
Lock/Power 2	Red
Lock/Power 3	White
Lock/Power 4	Green
Card Reader 1	Black
Card Reader 2	Red
Card Reader 3	White
Card Reader 4	Green
Card Reader 5	Brown
Card Reader 6	Blue

Color Chart 4

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

Inner Jacket Material

Element	Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
Card Reader	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.147 in	0.017 in
Rex/Spare	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.147 in	0.017 in
Lock/Power	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.19 in	0.017 in
Card Reader	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.179 in	0.017 in
Card Reader				

Outer Shield Material

Type	Description	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D	Drainwire Position
Tape	Card Reader	Card Reader	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	24	(7x32)	Card Reader
			Unshielded						

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness	Ripcord
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.147 in	0.017 in	Yes
Unjacketed		0.147 in		
		0.19 in		
		0.179 in		
		0.401 in		

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR	Nominal Outer Shield DCR
Door Contact	16.4 Ohm/1000ft	16.4 Ohm/1000ft		13.9 Ohm/1000ft
Rex/Spare	16.4 Ohm/1000ft	16.4 Ohm/1000ft		
Lock Power	6.5 Ohm/1000ft	6.5 Ohm/1000ft		
Card Reader	16.4 Ohm/1000ft	16.4 Ohm/1000ft	13.9 Ohm/1000ft	

Capacitance

Element	Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield	Nom. Capacitance Conductor to Shield
Card Reader	25 pF/ft		60 pF/ft
Door Contact	25 pF/ft		
Rex/Spare	30 pF/ft		
Lock Power	33 pF/ft	60 pF/ft	

Current

Element	Max. Recommended Current [A]
Door Contact	2.2 Amps @ 25C ambient (10C temperature rise)
Rex/Spare	2.2 Amps @ 25C ambient (10C temperature rise)
Lock Power	4.0 Amps @ 25C ambient (10C temperature rise)
Card Reader	2.2 Amps @ 25C ambient (10C temperature rise)

Voltage

UL Description	UL Voltage Rating
UL type CMP	300 V RMS

Electrical Characteristics Notes:	Rex/Spare: Per conductor @ 25°C: 2.2 A
Other Electrical Characteristic 2:	Lock Power: Per conductor @ 25°C: 4 A
Other Electrical Characteristic 3:	Card Reader: Per conductor @ 25°C: 2.2 A

Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	0°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	100 lbs/1000ft
Max Recommended Pulling Tension:	217 lbs
Min Bend Radius/Minor Axis:	4 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
-----------------------	-----

Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT6
UL Flammability:	NFPA 262
CSA Flammability:	FT6
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
---------------	-----

Part Number

Non-Plenum Number:	558GMS
--------------------	--------

Variants

Item #	Color	UPC	Footnote
658GMS 0001000	Yellow, Orange, White, Gray	612825178668	C

Footnote:	C - CRATE REEL PUT-UP.
Patent:	7049523

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: 0.232 Revision Date: 08-22-2019
----------------------	--

© 2019 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.