Product: 658GFS

Access Control, 18c (#22-6pr, #18-4c, #22-2c), Shielded, CMP

Product Description

Access Control Cable, Plenum-CMP, 6-22 AWG pairs, 4-18 AWG conductors, 2-22 AWG conductors, All conductors stranded bare copper with Flamarrest® insulation, Each cable has overall Beldfoil® shield and 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/resources/patents.

Construction Details

Conductor

Element Description	Element	Number of Element	AWG	Stranding	Material
Card Reader	Pair(s)	3	22	7x30	BC - Bare Copper
Card Reader	Pair(s)	3	22	7x30	BC - Bare Copper
Door Contact	Conductor(s)	2	22	7x30	BC - Bare Copper
Lock Power	Conductor(s)	4	18	7x26	BC - Bare Copper

Insulation

Element Description	Element	Material	Nom. Insulation Diameter	Color Code
Card Reader	Pair(s)	PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	Black & Red, White & Green, Brown & Orange
Card Reader	Pair(s)	PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	Black & Red, White & Green, Brown & Orange
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	Black, Red
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.066 in (1.7 mm)	Black, Red, White, Green

Inner Shield

Element Description	Element	Shield Type	Material	Coverage	Drainwire Type
Card Reader	Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Card Reader	Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Door Contact	Conductor(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Lock Power	Conductor(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

Inner Jacket

Element Description	Element	Material	Nom. Diameter	Ripcord	Color
Card Reader	Pair(s)	PVC - Polyvinyl Chloride	0.216 in (5.49 mm)	Yes	Orange
Card Reader	Pair(s)	PVC - Polyvinyl Chloride	0.216 in (5.49 mm)	Yes	Yellow
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	0.128 in (3.25 mm)	Yes	White
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.193 in (4.90 mm)	Yes	Gray

Outer Jacket

Material	Ripcord
PVC - Polyvinyl Chloride	Yes
No Jacket	

Table Notes:	Banana Peel®

Cable Diameter (Nominal):	0.456 in (11.6 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	Pair(s)	16.3 Ohm/1000ft (53.5 Ohm/km)	13.9 Ohm/1000ft (45.6 Ohm/km)	33 pF/ft (110 pF/m)	60 pF/ft (200 pF/m)	2.2 Amps per Conductor at 25ºC
Card Reader	Pair(s)	16.3 Ohm/1000ft (53.5 Ohm/km)	13.9 Ohm/1000ft (45.6 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)	16.7 Ohm/1000ft (54.8 Ohm/km)	55 pF/ft (180 pF/m)	99 pF/ft (320 pF/m)	2.2 Amps per Conductor at 25ºC
Lock Power	Conductor(s)	6.5 Ohm/1000ft (21 Ohm/km)	15.9 Ohm/1000ft (52.2 Ohm/km)	40 pF/ft (130 pF/m)	72 pF/ft (240 pF/m)	4 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
300 V (UL CMP)

Mechanical Characteristics

Temperature

UL Rating	Operating	Installation
75°C	-5°C to +75°C	-5°C To +75°C

Max. Pull Tension:	163 lbs (73.9 kg)
Bulk Cable Weight:	104 lbs/1000ft (155 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Fire Resistance:	NFPA 262, FT6
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	558GFS

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. Banana Peel® US PATENT 7049523.

History

Update and Revision:	Revision Number: 0.315 Revision Date: 08-27-2021