



Product: [558ANH](#) 

Access Control, 16c (#22-3pr, #18-4c, #22-6c), Shielded, LSZH Banana Peel®, CMG-LS

Product Description

Access Control Cable, Riser-CMR, 3-22 AWG pairs, 4-18 AWG conductors, 4-22 AWG conductors, 2-22 AWG conductors, All conductors stranded bare copper with polyolefin insulation, Each cable has overall Beldfoil® shield and LSZH 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	TC - Tinned Copper
Door Contact	Conductor(s)	2	22	7x30	TC - Tinned Copper
REX/Spare	Conductor(s)	4	22	7x30	TC - Tinned Copper
Lock Power	Conductor(s)	4	18	7x26	BC - Bare Copper

Insulation

Element Description	Element	Material	Color Code
Card Reader	Pair(s)	PP - Polypropylene	Black & Red, White & Green, Brown & Orange
Door Contact	Conductor(s)	PP - Polypropylene	Black, Red
REX/Spare	Conductor(s)	PP - Polypropylene	Black, Red, White, Green
Lock Power	Conductor(s)	PP - Polypropylene	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
Door Contact	Conductor(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
REX/Spare	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)	LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.252 in (6.40 mm)	Yes	Orange
Door Contact	Conductor(s)	LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.165 in (4.19 mm)	Yes	White
REX/Spare	Conductor(s)	LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.184 in (4.67 mm)	Yes	Blue
Lock Power	Conductor(s)	LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.216 in (5.49 mm)	Yes	Gray

Outer Jacket

Nom. Diameter
0.493 in (12.5 mm)

Table Notes:	Banana Peel®
Cable Diameter (Nominal):	0.493 in (12.5 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)	23 pF/ft (75 pF/m)	41 pF/ft (130 pF/m)	2 Amps per Conductor at 25°C
Door Contact	Conductor(s)	16.4 Ohm/1000ft (53.8 Ohm/km)	16.1 Ohm/1000ft (52.8 Ohm/km)	36 pF/ft (120 pF/m)	65 pF/ft (210 pF/m)	2.2 Amps per Conductor at 25°C
REX/Spare	Conductor(s)	16.4 Ohm/1000ft (53.8 Ohm/km)	16.1 Ohm/1000ft (52.8 Ohm/km)	23 pF/ft (75 pF/m)	41 pF/ft (130 pF/m)	2.2 Amps per Conductor at 25°C
Lock Power	Conductor(s)	6.5 Ohm/1000ft (21 Ohm/km)	7.3 Ohm/1000ft (24 Ohm/km)	30 pF/ft (98 pF/m)	54 pF/ft (180 pF/m)	4 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V (UL CMG)

Mechanical Characteristics

Temperature

Operating
0°C to +75°C

Max. Pull Tension:	200 lbs (91 kg)
Bulk Cable Weight:	107 lbs/1000ft (159 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Fire Resistance:	UL1685 FT4 Loading, Limited Smoke, FT4
NEC / UL Compliance:	Article 800, CMG-LS
CEC / C(UL) Compliance:	CMG-LS
CPR Euroclass:	B2ca-s1,d1,a1
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)
Plenum Number:	658AFS
Non-Plenum Number:	558AFS

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.
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History

Update and Revision:	Revision Number: 0.370 Revision Date: 08-27-2021
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