

Part Number: 658AFJ 16c (#22-3pr, #18-4c, #22-4c, #22-2c), Shielded, CMP

Product Description

Access Control Cable, Plenum-CMP, 3-22 AWG pairs, 4-18 AWG conductors, 4-22 AWG conductors, 2-22 AWG conductors, All conductors stranded bare copper with Flamarrest® insulation, Each cable has overall Beldfoil® shield and Flamarrest® jacket, overall Flamarrest® jacket

Technical Specifications

Product Overview

Environmental Space:	Plenum
Suitable Applications:	Access Control

Physical Characteristics (Overall)

Conductor							
Element	AWG	Stranding	Material	Construction n x D	Nominal Diameter	No. of Conductors	No. of Pairs
Card Reader	22	Stranded	BC - Bare Copper	7x30	0.029 in		3
Door Contact	22	Stranded	BC - Bare Copper	7x30	0.029 in	2	
Rex/Spare	22	Stranded	BC - Bare Copper	7x30	0.029 in	4	
Lock/Power	18	Stranded	BC - Bare Copper	7x26	0.046 in	4	
Conductor Co	onductor Count: 16						
Conductor Size: 22 AWG							

Insulation

Element	Material	Material Trade Name	Nominal Diameter
Card Reader	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.047 in
Door Contact	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.047 in
Rex/Spare	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.047 in
Lock/Power	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.066 in

Color Chart

Number	Color
Card Reader 1	Black and Red
Card Reader 2	Green and White
Card Reader 3	Orange and Brown
Door Contact 1	Black
Door Contact 2	Red
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

Color Chart 4

Number	Color
Card Reader	Orange
Door Contact	White

Inner Shield Material

Element	Туре	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG	Drainwire Construction n x D	Drainwire Position
Card Reader	Таре	3 x 22 AWG Pairs	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	.024 in	24	7X32	Over Shield Tape
Door Contact	Таре	2 x 22 AWG	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	.024 in	24	7X32	Over Shield Tape
Rex/Spare	Таре	4 x 22 AWG	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	.024 in	24	7X32	Over Shield Tape
Lock/Power	Таре	4 x 18 AWG	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	.024 in	24	7X32	Over Shield Tape

Inner Jacket Material

Element	Material	Material Trade Name	Nominal Diameter	Ripcord
Card Reader	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	.216 in	Yes
Door Contact	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	.128 in	Yes
Rex/Spare	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	.147 in	Yes
Lock/Power	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	.193 in	Yes

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.463 in

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Inner Shield DCR
Card Reader	16.1 Ohm/1000ft	14.9 Ohm/1000ft
Door Contact	16.1 Ohm/1000ft	17.2 Ohm/1000ft
Rex/Spare	16.1 Ohm/1000ft	17.2 Ohm/1000ft
Lock/Power	6.4 Ohm/1000ft	16.4 Ohm/1000ft

Capacitance

Element	Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
Card Reader	33 pF/ft	60 pF/ft
Door Contact	55 pF/ft	99 pF/ft
Rex / Spare	33 pF/ft	59 pF/ft
Lock / Power	42 pF/ft	76 pF/ft
Shielding:		

Current

Element	Max. Recommended Current [A]
Card Reader	2.0 Amps
Door Contact	2.2 Amps
Rex/Spare	2.2 Amps
Lock Power	4 Amps

Voltage

UL Voltage Rating 300 V RMS

Temperature Range

0°C To +75°C
108 lbs/1000ft
200 lbs
4.75 in

Standards

	NEC Articles:	800
--	---------------	-----

Foil(s) or Copper Tape(s)

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	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):	2007-05-09
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:

Flammability, LS0H, Toxicity Testing

UL voltage rating: 300 V RMS	UL Flammability:	NFPA 262
	UL voltage rating:	300 V RMS

Yes

Yes

558AFJ

Plenum/Non-Plenum

Part Number

Non-Plenum	Numbor
NOII-FIEIIUIII	number.

Variants

ltem #	Color
658AFJ 0041000	Yellow

© 2018 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.