

**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
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**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
Conductor Size:	22 AWG

**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	

Shielding: Foil(s) or Copper Tape(s)

#### 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
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## Flammability, LS0H, Toxicity Testing

C(UL) Flammability:	FT6
UL Flammability:	NFPA 262
CSA Flammability:	FT6
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
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## Part Number

Non-Plenum Number:	558GMS
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## Variants

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

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

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