



# LoVoltage<sup>spec</sup>

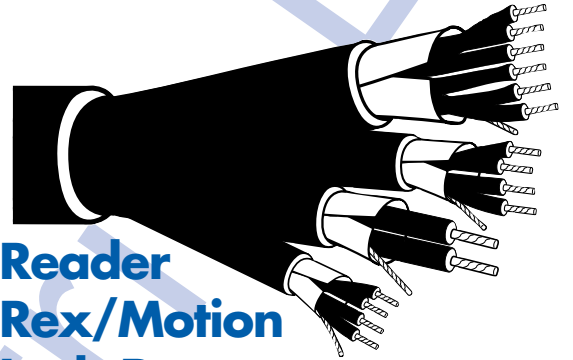
454932AYW PDS 236010707

Electronic Wire and Cable

## ACCESS CONTROL

### ALL-IN-ONE / COMPOSITE CABLE

- 6 CONDUCTOR 18 AWG SHIELDED – **Reader**
- 4 CONDUCTOR 18 AWG SHIELDED – **Rex/Motion**
- 2 CONDUCTOR 16 AWG SHIELDED – **Lock Power**
- 4 CONDUCTOR 22 AWG SHIELDED – **Door Contact**



#### 1.0 APPLICATION

**1.1** This specification covers the requirements for home run style Access Control Systems where devices are wired from the head end to the device. Products are used for Reader, Request to Exit, Motion Detector, Communications and Mag Lock Power as well as various possible system options. These cables are often used with **Kantech, Northern, HID, ADT, Honeywell, Software House**, and other systems.

#### 2.0 SCOPE

**2.1** This cable is a composite construction of 6 conductors 18 AWG stranded bare copper conductor insulated with color coded FPR, shielded with a drain wire and an FPR jacket; 4 conductors 18 AWG stranded bare copper conductor insulated with color coded FPR, shielded with a drain wire and an FPR jacket; 2 conductors 16 AWG stranded bare copper conductor insulated with color coded FPR, shielded with a drain wire and an FPR jacket and 4 conductors 22 AWG stranded bare copper conductor insulated with color coded FPR, shielded with a drain wire and an FPR jacket. To complete the construction, a yellow SGPVC jacket is applied overall. Type CMP, UL Standard 444, NEC Article 800, UL 910 Plenum.

#### 3.0 CONSTRUCTION

##### 3.1 Conductor:

3.1.1 Material: Bare Copper

##### 3.2 Insulation:

3.2.1 Material: FPR

3.2.2 Color Code:

- |         |         |
|---------|---------|
| 1-Black | 4-Green |
| 2-Red   | 5-Brown |
| 3-White | 6-Blue  |

##### 3.3 Shield:

3.3.1 Material: Aluminum polyester Foil

3.3.2 Coverage: 100%

##### 3.4 Drain Wire:

3.4.1 Material: Tinned Copper

3.4.2 Construction: Stranded

##### 3.5 Individual Jackets:

3.5.1 Material: FPR

3.5.2 Color: White

3.5.3 Ripcord under jacket

##### 3.6 Overall Jacket:

3.6.1 Material: SGPVC

3.6.2 Wall Thickness: .015"

3.6.3 O.D.: .451" nom.

3.6.4 Color: Yellow

3.6.5 Ripcord under jacket

3.6.6 Print: "PAIGE 454932AYW CARD ACCESS  
COMPOSITE CABLE TYPE CMP C(UL) E191596

##### 3.7 Conductor:

3.7.1 Temperature: -20°C to 75°C

3.7.2 Voltage: 300 Volt

3.7.3 Velocity of Propagation: 55%

#### 4.0

Paige Part #	CABLE #	AWG	COND	STRANDING	INSULATION WALL	JACKET			IMPEDANCE OHMS	CAPACITANCE pF/FT NOM.	RESISTANCE
						WALL	NOM. OD	PRINT			
2S18062B1	1	18	6	7 x 26	.009"	.014"	.208"	Paige 2S18062B1 – Reader Cable, 18/6 Shielded CMP (C)UL E191596	39	47.3	6.92
454645AWH	2	18	4	7 x 26	.009"	.014"	.183"	Paige 454645AWH – Rex/Motion, 18/4 Shielded CMP (C)UL E191596	39	47.3	6.92
454907AWH	3	16	2	19 x 29	.009"	.014"	.185"	Paige 454907AWH – Lock Power, 16/2 Shielded CMP (C)UL E191596	36	65.0	4.35
2S22042B1	4	22	4	7 x 30	.007"	.013"	.139"	Paige 2S22042B1 – Door Contact, 22/4 Shielded CMP (C)UL E191596	47	39.7	17.5

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