



Technical Specifications

Product Line: RG59-18/2C-PS

Description

Composite cable 1 pair 18 AWG stranded, twisted and unshielded power pair with a 20 AWG RG59 CCTV coaxial cable in parallel and jacketed NEC type CMP and CEC type CMP FT6. Product manufactured compliant to the requirements of UL444 for installations and applications in accordance with NEC articles 725 and 800.

Component 1:

RG59 coaxial cable
20 AWG solid annealed bare copper conductor
Foamed fluoropolymer dielectric
Wall thickness: 0.053" | 1.35mm
Diameter: 0.135" | 3.43mm
95% 16x9/36 AWG bare copper braid shield
Plenum rated polyvinyl chloride jacket
Thickness: 0.014" | 0.35mm
Diameter: 0.187" | 4.75mm

Component 2:

18 AWG 2 conductor power cable
7-strand annealed bare copper conductors
Plenum rated polyvinyl chloride insulation
Wall thickness: 0.008" | 0.20mm
Diameter: 0.058" | 1.48mm
Plenum rated polyvinyl chloride jacket
Thickness: 0.014" | 0.35mm
Diameter: 0.150" | 3.81mm

Color Code

18 AWG: Black, Red

Assembly

A jacketed coaxial cable and a jacketed 18/2 power cable ran in parallel and joined by a web

Construct

N/A

Shield

See individual component descriptions

Electrical

DC resistance: 10.3 Ω / 1000' | 33.9 Ω /KM
Shield DCR: 3.59 Ω / 1000' | 11.76 Ω /KM
Mutual capacitance: 16.3 pF/FT | 53.46 pF/M
Impedance: 75 $\pm$ 3 Ω
Velocity of Propagation: 82%
Voltage rating: 300V
SRL 5-300 MHz: -20dB
18 AWG DCR: 5.94 Ω / 1000' | 19.48 Ω /KM
Maximum current: 3.75A@25 °C

Regulatory

NEC: CMP 60 °C
CEC: CMP FT6 60 °C
EU RoHS 2002/95/EC Compliant

Packages

Reel: 1000' | 305M
Weight: 46 Lbs/1000' | 69 Kg/KM

Installation

Pull Tension: 66 Lbs | 132 N
Bend radius: 1.87" | 48mm unloaded
Bend radius: 3.74" | 96mm loaded
Plenum cable should be conditioned at room temperature for 24 hours prior to installation and never installed below 32 °F | 0 °C ambient temperature

Applications

Plenum required security video and control
Plenum required Pan-Tilt-Zoom infrastructure cable

Performance

CCTV to 468 feet





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Jacket

Plenum rated polyvinyl chloride

Colors: White

Coax: Wall thickness: 0.014" | 0.35mm

18 AWG: Wall thickness: 0.014" | 0.35mm

Diameter: 0.187x0.369" | 4.75x9.37mm

Final Outside Diameter (inches)

0.187x0.369

Specification Revision Date:

March 6, 2013

RG59 Sweep to 1.0 GHz

Frequency	Attenuation	
	dB/100FT	dB/100m
1	0.30	0.98
10	0.66	2.16
50	1.50	4.92
100	2.10	6.89
200	3.10	10.17
400	4.38	14.37
700	6.11	20.04
900	6.93	22.73
1000	7.30	23.94

