



Technical Specifications

Product Line: RG59-18/2C-DB

Description

Composite cable 1 pair 18 AWG stranded, twisted and unshielded power pair with a 20 AWG RG59 CCTV flooded coaxial cable in parallel and jacketed. Item is sunlight resistant and suitable for direct burial. 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 polyethylene dielectric
Wall thickness: 0.056" | 1.42mm
Diameter: 0.143" | 3.63mm
95% 16x9/36 AWG bare copper braid shield
Polyethylene jacket
Thickness: 0.034" | 0.86mm
Diameter: 0.235" | 5.97mm

Component 2:

18 AWG 2 conductor power cable
7-strand annealed bare copper conductors
Foam polypropylene insulation
Wall thickness: 0.008" | 0.203mm
Diameter: 0.062" | 1.57mm
Polyethylene jacket
Thickness: 0.034" | 0.86mm
Diameter: 0.192" | 4.88mm

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

Jacket

Polyethylene
Colors: Black
Coax: Wall thickness: 0.034" | 0.86mm
Diameter: 0.235x0.424" | 5.97x10.77mm

Electrical

DC resistance: 10.3 Ω / 1000' | 33.9 Ω /KM
Shield DCR: 2.70 Ω / 1000' | 8.86 Ω /KM
Mutual capacitance: 17 pF/FT | 55.76 pF/M
Impedance: 75 \pm 3 Ω
Velocity of Propagation: 78%
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

Sunlight resistant
Suitable for direct burial
EU RoHS 2002/95/EC Compliant

Packages

Reel: 1000' | 305M
Weight: 43 Lbs/1000' | 64 Kg/KM

Installation

Pull Tension: 66 Lbs | 132 N
Bend radius: 2.35" | 60mm unloaded
Bend radius: 4.70" | 120mm loaded

Applications

Outside plant security video and control
Outside plant Pan-Tilt-Zoom infrastructure cable

Performance

CCTV to 493 feet

Final Outside Diameter (inches)

.235x.424





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Specification Revision Date:

July 26, 2010

RG59 Sweep to 1.0 GHz

Frequency	Attenuation	
	dB/100FT	dB/100m
1	0.23	0.75
10	0.78	2.56
50	1.79	5.87
100	2.56	8.40
200	3.70	12.14
400	5.34	17.52
700	7.10	23.29
900	8.01	26.27
1000	8.51	27.91

