Technical Requirement for:

RG59 Coax Cable + 2 DC (White)

P/N: 2327

Description

RG59 Coaxial cable for camera with DC power 100 meter plastic reel

The following technical requirements are mandatory parameters for manufacturers & Suppliers.

1. Basic information:

The cable MUST be compatible to this document.

Support

- ANSI/SCTE 74 2003 RF Specification for Coaxial Cable
- EN 50117-1:2002 Coaxial Cable
- NEC Article 820, CATV

General

- All shipping is required to attach a QC document.
- All of Coax Cable should be meet the Emission test.
- EN50117 / American standard ANSI/SCTE 74 2003.

Application

- For audio and power transmission
- Light Duty PVC Jacket Flexible Cord
- Ordinary Duty PVC Jacket Flexible Cord
- Wire For Internal Wiring Of Equipment
- CCTV cable RG59+2 DC power

Characteristics

1), Dielectric Strength: Conductor to Shield: 2000VDC
2), Impedance: 75+2 Ohm
5), DCR: Conductor: 10.5 Ohms/1000Ft. (Nom.) Coax
6), Return Loss: 20dB min (5-860MHz)
7), 15dB min(860-2500MHz)
8), SRL: 20dB (10-350MHz) 100% Swept Tested

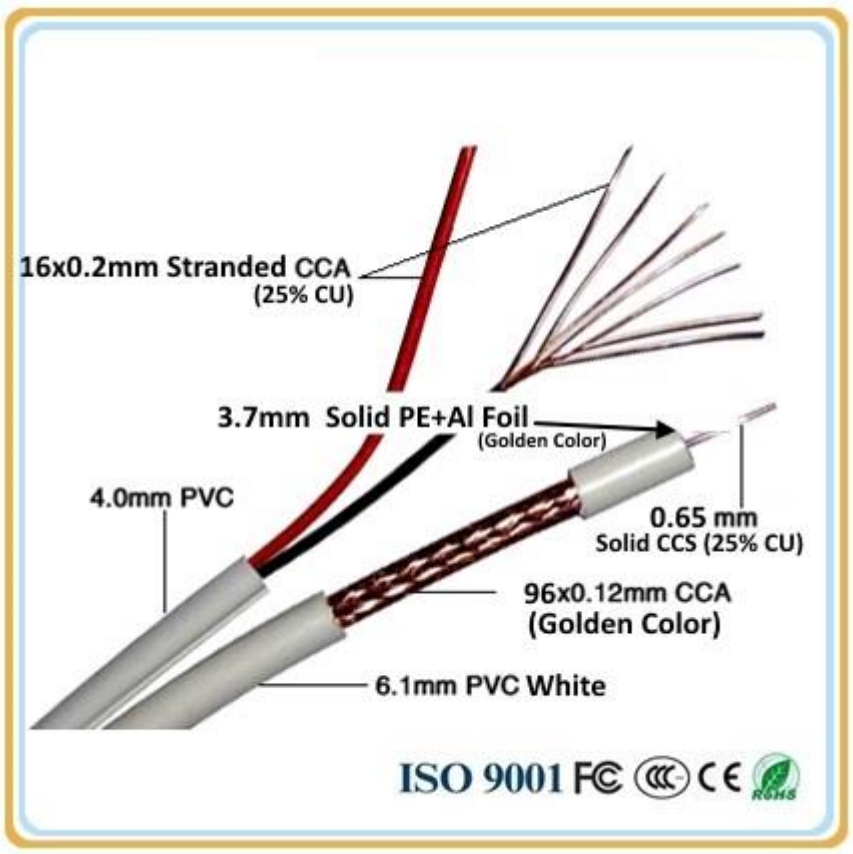
2. Cable Labeling:

Boostwires 2327 RG59 75Ω & 2DC wire XXXm

Please Note:

- The printing MUST be straight and emphasized (not curve)
- Cable length – The printing will repeat every 100cm and will increase incrementally

3. Coaxial Cable Type 59 Dual-Shield:



Please note the following:

1. **DC Wires needs to be in golden color**
2. **DC PCV needs to be in red & black colors**
3. **The Solid PE should be 3.7mm Foam Dielectric Type coax cable that is flexible and not stretched, which can be removed easily when exposing the conductor**
4. **The material for the PVC and for the foam PE should NEVER be refurbished or recycled material. PVC material should be brand new!**

4. Physical Specifications

Item		Unit	Specification
Conductor	Number		1
	Material		CCS (25% Copper)
	Construction		solid
	Diameter	mm	0.65
Insulation	Material		Solid PE
	Min. Thickness	mm	3.7
Shielding	Material		Aluminum foil (golden Color)
	Min. Thickness	mm	0.06
Braiding	Material		Aluminum (golden color)
	Min. Thickness	mm	0.12
	Number of braids		96
DC Wires	Material		CCA (25% Copper)
	Min. Thickness	mm	0.2mm
	Number of DC wires (stranded)		16
	DC wires PVC Jacket	mm	0.5±0.02
Jacket	Material		New PVC
	Min. Thickness	mm	0.5±0.02
	Overall diameter	mm	5.2

5. Electrical Specifications

Characteristic Impedance	75,0 Ω ± 3,0 Ω
Propagation velocity	85%
Transfer Impedance (5-30MHz)	≤ 5,0 mΩ
Screening attenuation (30-1000MHz), dB	≥ 85,0 dB
Return Loss 5-30MHz 30-470MHz 470-1000MHz	 ≥23,0 dB ≥23,0 dB ≥20,0 dB
Nominal Capacitance	16.2 pF/ft (53.2 pF/m)
Insulation Resistance	$>10^4$ MΩ
Center Conductor Resistance@68°F (20°C)	<49.2 Ω/1000ft (161.4 Ω/km)
DC Loop Resistance	<58.0 Ω/1000ft (190.3 Ω/km)

6. Mechanical Specifications

Minimum Bend Radius	0.875 Inches (22.230mm)
Center Conductor Minimum Break Strength	41.3 kgf (405 N)
Center Conductor Bond To Dielectric	>5 lbs (2.3 kg)
Shield overlap	>18%
Thermal Oxidative Stability (Life time)	-40°C to 90°C @ 336h After aging:70% of Initial value.
UV Stable	The jacket material shall be UV stable, as defined in UL 1581, Paragraph 1200.
Safety against fire	The jacket material will be protected from fire, as defined at NEC Article 820.

7. Drop Cable Maximum Attenuation @ 68ºF (20ºC):

Frequency (MHz)	dB/100ft	dB/100m
5	0.86	2.82
55	2.05	6.73
211	3.80	12.47
250	4.10	13.45
270	4.22	13.85
300	4.45	14.60
330	4.66	15.29
350	4.80	15.75
400	5.10	16.73
450	5.40	17.72
500	5.70	18.70
550	5.95	19.52
600	6.20	20.34
750	6.97	22.87
870	7.57	24.85
1000	8.12	26.64

8. Reels Marking:

Each reel should contain 100m Cable, and should be marked with a sticking containing the following information:

Item: RG59 + 2DC Wires
P/N: 2327
Length: 100m
NW: XXX KG
GW: YYY KG

Reel for example:



Note: In order to reduce costs the reel should be from plastic.

9. Carton box packing

a. Carton box size dimension = 51*25.5*37
b. Each outer box will contain 4 plastic reels
c. Each Carton box will have the printing on its front side:

(1) Producer name and its trademark.
(2) Item description
(3) P/N
(4) QTY
(5) Net weight.
(6) Gross weight.
(7) Carton Size

Please see carton box example



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