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## General Description:

Industry Standard SMPTE 311M Cable, Water Blocking Tape, 4x20 AWG TC stranded power conductors (19x32), 2x24 AWG TC stranded signal conductors (7x32) and 2xSM fibers PVC insulation, TC braid shield (95% coverage), CPE jacket.

## Usage (Overall)

**Suitable Applications:** SMPTE 311M Camera Cable

## Twisted Pair

**Physical Characteristics**  
Individual Shield

## Multi Conductor

**Physical Characteristics**  
Conductor

**AWG:**

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
2	24	7x32	TC - Tinned Copper	0.610
4	20	19x32	TC - Tinned Copper	0.940

## Insulation

**Insulation Material:**

Insulation Material	Dia. (mm)	AWG
PVC - Polyvinyl Chloride	1.600	20
PVC - Polyvinyl Chloride	1.270	24

**Insulation Color Code Chart:**

Number	Color	Description
1	Red	24 AWG
2	Gray	24 AWG
3	White	20 AWG
4	Black	20 AWG
5	White/Black	20 AWG
6	Black/White	20 AWG

## Individual Shield

### Electrical Characteristics

**Nom. Conductor DC Resistance:**

Description	DCR @ 20°C (Ohm/km)
24 AWG	76.447
20 AWG	28.873

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)
11.484

## Fiber

### Physical Characteristics

**Fiber Type:** Single Mode/125/900 Micron

**Number of Fibers:** 2

## 2804RW Composite - SMPTE Indoor/Outdoor Stadium

<b>Mode Field Diameter @ 1310nm:</b>	9.5 +/-1 microns
<b>Clad Diameter:</b>	125 microns
<b>Core-clad Concentricity Error:</b>	< to 1 micron
<b>Primary Coating Material:</b>	Acrylate
<b>Buffer Tube Diameter:</b>	900 microns
<b>Buffer Tube Material:</b>	PVC - Polyvinyl Chloride

### Buffer Tube Color Code Chart:

Number	Color
1	Blue
2	Yellow

### Optical Characteristics

<b>Maximum Attenuation @ 1310nm:</b>	0.5 dB/km
<b>Maximum Attenuation @ 1550nm:</b>	0.5 dB/km

### Physical Characteristics (Overall)

#### Conductor

#### Outer Shield

##### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	95.000

**Outer Shield Separator Material:** Water-blocking Tape

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
CPE - Chlorinated Polyethylene

#### Strength Member

<b>Overall Strength Member Diameter:</b>	.089
<b>Strength Member Material:</b>	302 Stainless Steel

#### Overall Cable

<b>Overall Nominal Diameter:</b>	9.195 mm
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### Mechanical Characteristics (Overall)

<b>Operating Temperature Range:</b>	-40°C To +60°C
<b>Max. Recommended Pulling Tension:</b>	2001.690 N
<b>Min. Bend Radius/Minor Axis:</b>	88.900 mm
<b>Crush Resistance:</b>	Compression, FOTP-41: 397 lbs.
<b>Impact Resistance:</b>	FOTP-25: 20 Cycles @ 1.32 lbs.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>UL Rating:</b>	CMR-OF
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	8/02/2011
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes

METRIC MEASUREMENT VERSION

## 2804RW Composite - SMPTE Indoor/Outdoor Stadium

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Other Specification: SMPTE 311

### Flame Test

UL Flame Test: UL1666 Riser

### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Burial: Yes

Sunlight Resistance: Yes

Suggested Connectors: SMPTE 304M Connectors

### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

**Other Electrical Characteristic 1:** Auxillary Conductors: DC Loop Resistance - 30 Ohms/km nom. (9.1 Ohms/1000ft.) Min. Insulation Resistance - 10, 000 Megaohms x km Dielectric Strength - 1750 V RMS. Signal Conductors: DC Loop Resistance - 150 Ohms/km nom. (45.7 Ohms/1000 ft.) Insulation Resistance - 10, 000 Megaohms/1000 ft. Dielectric Strength: 1750 V RMS

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
2804RW 010CUT	1 FT	0.099 LB	BLACK		COMPOSITE CAMERA CABLE WB RSR
2804RW 0101000	1,000 FT	97.000 LB	BLACK	C	COMPOSITE CAMERA CABLE WB RSR
2804RW 0103280	3,280 FT	311.600 LB	BLACK	C	COMPOSITE CAMERA CABLE WB RSR
2804RW 0106930	6,930 FT	686.070 LB	BLACK		COMPOSITE CAMERA CABLE WB RSR

**Notes:**

C = CRATE REEL PUT-UP.

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