



Product: [7834P](#)



3-Channel SMPTE Stadium Cable, 6 Single Mode Fiber, 6 Conductor 18 AWG and 6 Conductor 24 AWG, Plenum

Product Description

3-Channel SMPTE Stadium Cable, 6 Single Mode Fiber, 6 TC Conductor (19x30) 18 AWG and 6 TC Conductor (7x32) 24 AWG, FEP Insulation, Beldfoil Shield, PVDF Jacket, Plenum

Technical Specifications

Product Overview

Suitable Applications:	3 Channel Composite Camera Cable
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Multiconductor

Multiconductor Conductor and Insulation

Element	No. of Conductors	AWG	Stranding	Material	Nominal Conductor DCR	Insulation Material	Insulation Nominal Diameter
Blue Quad, Orange Quad, Green Quad	6	24	7x32	TC - Tinned Copper	23.3 Ohm/1000ft Ohm/1000ft	FEP - Fluorinated Ethylene Propylene	0.038 in
Blue Quad, Orange Quad, Green Quad	6	18	19x30	TC - Tinned Copper	6.67 Ohm/1000ft	FEP - Fluorinated Ethylene Propylene	0.064 in

Multiconductor Color Chart

Description	Color
Blue Quad - 24 AWG	Red
Blue Quad - 24 AWG	Gray
Blue Quad - 18 AWG	White
Blue Quad - 18 AWG	Black
Orange Quad - 24 AWG	Red
Orange Quad - 24 AWG	Gray
Orange Quad - 18 AWG	White
Orange Quad - 18 AWG	Black
Green Quad - 24 AWG	Red
Green Quad - 24 AWG	Gray
Green Quad - 18 AWG	White
Green Quad - 18 AWG	Black

Multiconductor Inner Shield

Layer	Inner Shield Type	Inner Shield Material	Inner Shield Coverage	Drainwire AWG	Drainwire Stranding	Drainwire Material	Drainwire Diameter	Drainwire Position
Blue Quad	Tape	Al/poly (Foil in)	100 %	24	7x32	TC - Tinned Copper	0.024 in	Under Shield Tape

Multiconductor Inner Shield 02

Layer	Inner Shield Type	Inner Shield Material	Inner Shield Coverage	Drainwire AWG	Drainwire Stranding	Drainwire Material	Drainwire Diameter	Drainwire Position
Orange Quad	Tape	Al/poly (Foil in)	100.0 %	24	7x32	TC - Tinned Copper	0.024 in	Under Shield Tape

Multiconductor Inner Shield 03

Layer	Inner Shield Type	Inner Shield Material	Inner Shield Coverage	Drainwire AWG	Drainwire Stranding	Drainwire Material	Drainwire Diameter	Drainwire Position
Green Quad	Tape	Al/poly (Foil in)	100.0 %	24	7x32	TC - Tinned Copper	0.024 in	Under Shield Tape

Multiconductor Inner Jacket

Element	Material	Nominal Diameter
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Blue Quad	PVDF - Polyvinylidene Fluoride	0.154 in
Orange Quad	PVDF - Polyvinylidene Fluoride	0.154 in
Green Quad	PVDF - Polyvinylidene Fluoride	0.154 in

Multiconductor UL Voltage

UL Description	UL Voltage Rating
24 AWG	300 V RMS
18 AWG	300 V RMS

Fiber

Fiber Cable Construction

Fiber Type	Fiber Count
OS2, G.657.A2	6

Fiber Color Coding:	TIA-598-D
Subunit Diameter:	0.078 in (2.0 mm)

Buffer Specification

Buffer Material	Buffer Diameter
PVC - Polyvinyl Chloride	900 µm

Number of Active Subunits:	6
Number of Subunit Positions:	6
Fibers Per Subunit:	1
Mode Field Diameter:	9.2 µm
Wavelength@Optical SM1:	1310 nm, 1550 nm
Max. Attenuation at 1310 nm:	0.50 dB/km
Max. Attenuation at 1550 nm:	0.50 dB/km

Overall Cable

Outer Jacket

Nominal Diameter
0.437 in

Jacket:	PVDF
Operating Temperature Range:	0°C to 75°C
Installation Temperature Range:	0°C to 70°C
Storage Temperature Range:	0°C to 70°C
Max. Pull Tension:	800 N
Bulk Cable Weight:	170 lbs/1000ft

Applicable Standards & Environmental Programs

NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
Other Standards:	SMPTE 311
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire and Cable):	Yes
China RoHS II (GB/T 26572-2011):	Yes

Suitability

Suitability - Aerial:	Yes - When supported by messenger wire
Suitability - Burial:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
UV Resistance:	Yes

Flame Test

UL Flammability:	NFPA 262
CSA/C(UL) Flammability:	FT6

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	7824R

History

Update and Revision:	Revision Number: 0.29 Revision Date: 11-27-2023
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Variants

Item #	Color	Length
7834P 0051000	Green	1,000 ft
7834P 0051000	Green	1,000 ft
7834P 0054000	Green	4,000 ft
7834P 0054000	Green	4,000 ft

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