



Product: [7844P](#)

4-Channel SMPTE Stadium Cable, 8 Single Mode Fiber, 8 Conductor 18 AWG and 8 Conductor 24 AWG, Plenum

Product Description

4-Channel SMPTE Stadium Cable, 8 Single Mode Fiber, 8 TC Conductor (19x30) 18 AWG and 8 TC Conductor (7x32) 24 AWG, FEP Insulation, Beldfoil Shield, PVDF Jacket, Plenum

Technical Specifications

Product Overview

Suitable Applications:	4 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
Brown Quad, Orange Quad, Green Quad, White Quad	8	24	7x32	TC - Tinned Copper	23.3 Ohm/1000ft Ohm/1000ft	FEP - Fluorinated Ethylene Propylene	0.038 in
Brown Quad, Orange Quad, Green Quad, White Quad	8	18	19x30	TC - Tinned Copper	6.67 Ohm/1000ft	FEP - Fluorinated Ethylene Propylene	0.064 in

Multiconductor Color Chart

Description	Color
Brown Quad - 24 AWG	Red
Brown Quad - 24 AWG	Gray
Brown Quad - 18 AWG	White
Brown 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
White Quad - 24 AWG	Red
White Quad - 24 AWG	Gray
White Quad - 18 AWG	White
White 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
All Quads	Tape	Al/poly (Foil in)	100 %	24	7x32	TC - Tinned Copper	0.024 in	Under Shield Tape

Multiconductor Inner Jacket

Element	Material	Nominal Diameter
All Quads	PVDF - Polyvinylidene Fluoride	0.154 in

Multiconductor UL Voltage

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

Fiber

Fiber Color Coding:	TIA-598-D
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Buffer Specification

Buffer Material	Buffer Diameter
PVC - Polyvinyl Chloride	900 µm

Number of Active Subunits:	8
Number of Subunit Positions:	8
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
0.477 in

Jacket:	PVDF
Operating Temperature Range:	0°C to 70°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:	193 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
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Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	7844R

History

Update and Revision:	Revision Number: 0.28 Revision Date: 11-27-2023
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Variants

Item #	Color	Length
7844P 0101000	Black	1,000 ft
7844P 0104000	Black	4,000 ft

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