

**Product:** [7824P](#) 

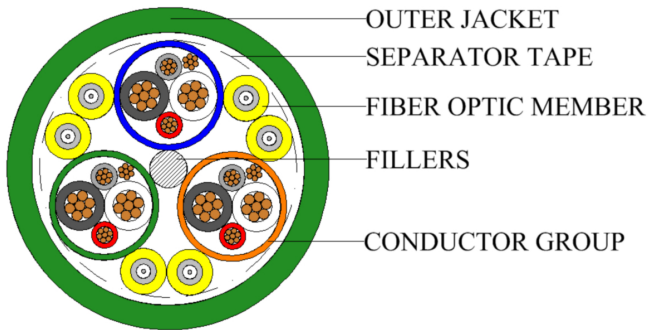


3-Channel SMPTE Stadium Cable, 6 Single Mode Fiber, 6 Conductor 18 AWG and 6 Conductor 24 AWG, Plenum

## 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 Drawing



## 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	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	0.078 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 %	22	7x30	TC - Tinned Copper	0.030 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 %	22	7x30	TC - Tinned Copper	0.030 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 %	22	7x30	TC - Tinned Copper	0.030 in	Under Shield Tape

#### Multiconductor Inner Jacket

Element	Material	Nominal Diameter
Blue Quad	PVDF - Polyvinylidene Fluoride	0.220 in
Orange Quad	PVDF - Polyvinylidene Fluoride	0.220 in
Green Quad	PVDF - Polyvinylidene Fluoride	0.220 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:	Yellow Printed
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

Material	Nominal Diameter
PVDF - Polyvinylidene Fluoride	0.553 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:	2700 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 - Indoor:	Yes
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## Flame Test

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

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
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## History

Update and Revision:	Revision Number: 0.266 Revision Date: 11-27-2023
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## Variants

Item #	Color	UPC	Length
7824P 005CUT	Green		
7824P 0054000	Green	612825190004	4,000 ft
7824P 0051000	Green, Dark	612825352266	1,000 ft
7824P 0052000	Green, Dark	612825443001	2,000 ft

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