


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

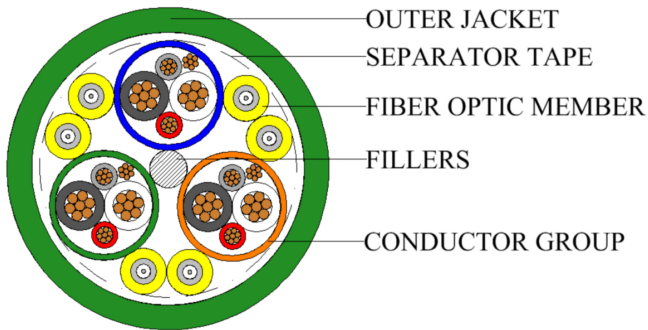


3-Channel SMPTE Stadium Cable, 6 Single Mode Fiber, 6 Conductor 18 AWG and 6 Conductor 24 AWG, Plenum

## 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
------------------------	----------------------------------

### 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
-----------------------	-----

## Flame Test

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

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
---------------	-----

## History

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

## 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

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.