Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

7824WB Composite - 3 Channel Composite Camera Cable

For more Information
please call

1-800-Belden1

General Description:

3-Channel SMPTE 311M Stadium Cable, 6 Single Mode Fiber, 6 Conductor 18AWG and 6 Conductor 24AWG

Usage (Overall)

Suitable Applications:	3 Channel Composite Camera Cable

Twisted Pair

Physical Characteristics

Individual Shield

Multi Conductor

Physical Characteristics

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
6	24	7x32	TC - Tinned Copper
6	18	19x30	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	AWG
PVC	18
PVC	24

Insulation Color Code Chart:

Number	Color	Description
1	Red	24 AWG
2	Gray	24 AWG
3	White	18 AWG
4	Black	18 AWG

Inner Shield

Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	% Coverage (%)
BELDFOIL	TAPE	AL/POLYESTER	100.000

Individual Shield

Electrical Characteristics

Maximum Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/100 m)
24 AWG	8.760
18 AWG	2.190

Fiber

Physical Characteristics

Fiber Type:	Single Mode/125/900 Micron
Number of Fibers:	6
Mode Field Diameter @ 1310nm:	9.5 +/-1 microns

Clad Diameter:	125 microns
Core-clad Concentricity Error:	< to 1 micron
Primary Coating Material:	Acrylate
Buffer Tube Diameter:	900 microns
Buffer Tube Material:	PVC - Polyvinyl Chloride

Strength Member

Strength Member Material:	Aramid Yarn

Inner Jacket

Inner Jacket Color Code Chart:

Number	Color
1	YELLOW #1
2	YELLOW #2
3	YELLOW #3
4	YELLOW #4
5	YELLOW #5
6	YELLOW #6

Optical Characteristics

Maximum Attenuation @ 1310nm:	.45 dB/km

Physical Characteristics (Overall)

Conductor

Outer Shield

Outer Shield Separator Material:	Waterblocking tape

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

Overall Cable

Overall Nominal Diameter:	13.716 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +60°C
Bulk Cable Weight:	196.442 Kg/Km
Max. Recommended Pulling Tension:	742.849 N
Min. Bend Radius/Minor Axis:	139.700 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Other Specification:	SMPTE 311

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

7824WB Composite - 3 Channel Composite Camera Cable

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	7824P
Non-Plenum Number:	7824R

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7824WB 0054000	4,000 FT	564.000 LB	GREEN, DARK		COMPOSITE CAMERA CABLE LDPO
7824WB 010CUT	1 FT	0.143 LB	BLACK		COMPOSITE CAMERA CABLE PO
7824WB 0101000	1,000 FT	140.000 LB	BLACK		COMPOSITE CAMERA CABLE PO
7824WB 0102000	2,000 FT	292.000 LB	BLACK		COMPOSITE CAMERA CABLE PO
7824WB 0102500	2,500 FT	352.500 LB	BLACK		COMPOSITE CAMERA CABLE PO
7824WB 0104000	4,000 FT	536.000 LB	BLACK		COMPOSITE CAMERA CABLE LDPO

Revision Number: 0 Revision Date: 02-01-2017

© 2019 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 herein 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 "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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.