

NTAPxxAA

Fiber Optic - Tight Buffer - PVC Jacket - Indoor Riser

 	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Related Documents: No.10 for Fiber Optic Cables .pdf</p>
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Cable Characteristics:

DESCRIPTION:

2 to 24 optical fibers, 900µm PVC tight buffer, stranded together with aramid yarn reinforcing, flame retardant PVC jacket for indoor applications - Riser rated.

SUITABLE APPLICATIONS:

Suitable Applications	High degree of flexibility suitable for backbone, horizontal, inner- and inter- building installations; Excellent flame retardant performance for indoor application.
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PHYSICAL CHARACTERISTICS:

Fiber Type	125/900 Micron
Number of Fibers	2 to 24
Tight Buffer Color Code Chart:	

Number	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Grey
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Aqua

The second set of 12 fibers with black rings is separated from the first set of 12.

STRENGTH MEMBER:

Strength Member Material	Aramid yarn
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OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL CABLE:

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Overall Nominal Diameter & Bulk Cable Weight:

# Fibers	Overall Nominal Diameter (mm)	Bulk Cable Weight (kg/km)
2	4.1	16.0
4	4.8	18.6
6	5.1	22.6
8	5.6	25.2
10	5.8	31.8
12	6.2	33.4
14	8.8	37.1
16	8.8	41.9
18	8.8	46.6
20	8.8	50.3
22	8.8	54.3
24	8.8	58.0

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	- 20°C To + 60°C
Storage Temperature Range	- 20°C To + 60°C
Max. Load for Installation	660 N, Passes IEC794-1
Max. Load for Long Term	200 N, Passes IEC794-1
Max. Crush Resistance for Installation	1000 N/100mm, Passes IEC794-1
Max. Crush Resistance for Long Term	300 N/100mm, Passes IEC794-1
Min. Bend Radius for Installation	20 × Cable OD
Min. Bend Radius for Long Term	10 × Cable OD

APPLICABLE SPECIFICATION AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	OFNR
CEC/C(UL) Specification	OFN
IEC Specification	60794-1
EU RoHS Compliant (Y/N)	Y
EU RoHS Compliance Date	Aug 2007

FLAME TEST:

C(UL) Flame Test	FT4
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SUITABILITY:

Suitability – Indoor (Y/N)	Y
Suitability - Outdoor (Y/N)	N

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Suitability - Aerial (Y/N)	N
Suitability – Duct (Y/N)	Y
Suitability – Direct Burial (Y/N)	N
Sunlight Resistance (Y/N)	N

Optical Characteristics:

SINGLE MODE FIBERS	G652.D (OS2)
Belden Fiber Code	P12
Typical Mode Field Diameter @ 1310nm	9.2 ±0.4 μm
Typical Mode Field Diameter @ 1550nm	10.4 ±0.5 μm
Cladding Diameter	125 ±0.7 μm
Clad Non-Circularity	≤ 0.7 %
Core-Clad Concentricity Error	≤ 0.5 μm
Primary Coating Material	Acrylate
Primary Coating Diameter	245 ±5 μm
Tight Buffer Material	PVC
Tight Buffer Diameter	900 ±50 μm
Max. Attenuation @ 1310nm	0.40 dB/km
Max. Attenuation @ 1550nm	0.30 dB/km
Point Loss @ 1310nm & 1550nm	0.05 dB
Zero Dispersion Wavelength	1302 – 1322 nm
Max. Slope @ Zero Dispersion Wavelength	0.090 ps/(nm ² km)
Max. PMD @ Link Design Value	0.1 ps/√ km
Cable Cutoff Wavelength	≤ 1260 nm
Refractive Index @1310nm	1.466
Refractive Index @1550nm	1.467

MULTI-MODE FIBERS	62.5μm OM1	50μm OM2	50μm OM3	50μm OM4
Belden Fiber Code	P62	P50	P53	P54
Typical Core Diameter	62.5 ±2.5 μm	50.0 ±2.5 μm	50.0 ±2.5 μm	50.0 ±2.5 μm
Cladding Diameter	125 ±1.0 μm	125 ±1.0 μm	125 ±1.0 μm	125 ±1.0 μm
Clad Non-Circularity	≤ 1 %	≤ 1 %	≤ 1 %	≤ 1 %
Core-Clad Concentricity Error	≤ 1.5 μm	≤ 1.5 μm	≤ 1.0 μm	≤ 1.0 μm

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Primary Coating Material	Acrylate	Acrylate	Acrylate	Acrylate
Primary Coating Diameter	245 ± 7 µm	245 ± 7 µm	245 ± 7 µm	245 ± 7 µm
Tight Buffer Material	PVC	PVC	PVC	PVC
Tight Buffer Diameter	900 ± 50 µm	900 ± 50 µm	900 ± 50 µm	900 ± 50 µm
Max. Attenuation @ 850nm	3.5 dB/km	3.5 dB/km	3.5 dB/km	3.5 dB/km
Max. Attenuation @ 1300nm	1.5 dB/km	1.5 dB/km	1.5 dB/km	1.5 dB/km
Min. Overfilled Bandwidth @ 850nm	200 MHz.km	500 MHz.km	1500 MHz.km	3500 MHz.km
Min. Overfilled Bandwidth @ 1300nm	600 MHz.km	500 MHz.km	500 MHz.km	500 MHz.km
Point Loss @ 850nm & 1300nm	0.10 dB	0.10 dB	0.10 dB	0.10 dB
Numerical Aperture	0.275 ± 0.015	0.200 ± 0.015	0.200 ± 0.015	0.200 ± 0.015
Refractive Index @ 850nm	1.496	1.482	1.482	1.482
Refractive Index @ 1300nm	1.491	1.477	1.477	1.477
Min. G-Ethernet Transmission Distance@850nm	300 m	550 m	1000 m	1000 m
Min.G-Ethernet TransmissionDistance@1300nm	550 m	550 m	600 m	600 m
Min. 10G-Ethernet Transmission Distance@850nm	—	—	300 m	550 m

PUT-UPS AND COLORS:

Item	# Fibers	Fiber Type	Cable Description	Put-up* (metre)	Jacket Color
NTAP12AA002YEAA	2	G652.D	TIGHT BUFFER INDOOR RISER OFC	2000	YELLOW
NTAP12AA004YEAA	4	G652.D	TIGHT BUFFER INDOOR RISER OFC	2000	YELLOW
NTAP12AA006YEAA	6	G652.D	TIGHT BUFFER INDOOR RISER OFC	2000	YELLOW
NTAP12AA008YEAA	8	G652.D	TIGHT BUFFER INDOOR RISER OFC	2000	YELLOW
NTAP12AA010YEAA	10	G652.D	TIGHT BUFFER INDOOR RISER OFC	2000	YELLOW
NTAP12AA012YEAA	12	G652.D	TIGHT BUFFER INDOOR RISER OFC	2000	YELLOW
NTAP12AA014YEAA	14	G652.D	TIGHT BUFFER INDOOR RISER OFC	2000	YELLOW
NTAP12AA016YEAA	16	G652.D	TIGHT BUFFER INDOOR RISER OFC	2000	YELLOW
NTAP12AA018YEAA	18	G652.D	TIGHT BUFFER INDOOR RISER OFC	2000	YELLOW
NTAP12AA020YEAA	20	G652.D	TIGHT BUFFER INDOOR RISER OFC	2000	YELLOW
NTAP12AA022YEAA	22	G652.D	TIGHT BUFFER INDOOR RISER OFC	2000	YELLOW
NTAP12AA024YEAA	24	G652.D	TIGHT BUFFER INDOOR RISER OFC	2000	YELLOW
NTAP62AA002OGAA	2	62.5µm OM1	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP62AA004OGAA	4	62.5µm OM1	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP62AA006OGAA	6	62.5µm OM1	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP62AA008OGAA	8	62.5µm OM1	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP62AA010OGAA	10	62.5µm OM1	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE

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NTAP62AA012OGAA	12	62.5µm OM1	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP62AA014OGAA	14	62.5µm OM1	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP62AA016OGAA	16	62.5µm OM1	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP62AA018OGAA	18	62.5µm OM1	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP62AA020OGAA	20	62.5µm OM1	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP62AA022OGAA	22	62.5µm OM1	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP62AA024OGAA	24	62.5µm OM1	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP50AA002OGAA	2	50µm OM2	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP50AA004OGAA	4	50µm OM2	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP50AA006OGAA	6	50µm OM2	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP50AA008OGAA	8	50µm OM2	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP50AA010OGAA	10	50µm OM2	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP50AA012OGAA	12	50µm OM2	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP50AA014OGAA	14	50µm OM2	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP50AA016OGAA	16	50µm OM2	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP50AA018OGAA	18	50µm OM2	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP50AA020OGAA	20	50µm OM2	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP50AA022OGAA	22	50µm OM2	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP50AA024OGAA	24	50µm OM2	TIGHT BUFFER INDOOR RISER OFC	2000	ORANGE
NTAP53AA002AQAA	2	50µm OM3	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP53AA004AQAA	4	50µm OM3	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP53AA006AQAA	6	50µm OM3	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP53AA008AQAA	8	50µm OM3	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP53AA010AQAA	10	50µm OM3	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP53AA012AQAA	12	50µm OM3	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP53AA014AQAA	14	50µm OM3	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP53AA016AQAA	16	50µm OM3	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP53AA018AQAA	18	50µm OM3	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP53AA020AQAA	20	50µm OM3	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP53AA022AQAA	22	50µm OM3	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP53AA024AQAA	24	50µm OM3	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP54AA002AQAA	2	50µm OM4	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP54AA004AQAA	4	50µm OM4	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP54AA006AQAA	6	50µm OM4	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP54AA008AQAA	8	50µm OM4	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP54AA010AQAA	10	50µm OM4	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP54AA012AQAA	12	50µm OM4	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP54AA014AQAA	14	50µm OM4	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP54AA016AQAA	16	50µm OM4	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA

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NTAP54AA018AQAA	18	50µm OM4	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP54AA020AQAA	20	50µm OM4	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP54AA022AQAA	22	50µm OM4	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA
NTAP54AA024AQAA	24	50µm OM4	TIGHT BUFFER INDOOR RISER OFC	2000	AQUA

* Other put-ups available upon request.

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