

PRODUCT DATA SHEET

Fiber Optic Jumpers and Pigtails

Description

Nitrotel offers a complete line of fiber optic jumpers and pigtails to service all network applications. Our fiber optic jumpers and pigtails include high quality components and are manufactured to comply with industry standards for optical, mechanical, and environmental performance. The wide selection of connectors, cable types, and lengths ensures that jumpers can be optimized for each unique installation.

As transmission platforms become denser, there is a need to route more fiber through smaller spaces. To accommodate this ever-increasing challenge, the standard fiber cable diameter for jumpers is 2.0 mm. Using 2.0 mm diameter cable can more than double the fiber capacity of overhead fiber routing troughs while making fiber management easier in tightly packed cabinets. There is a 3.0 mm option to match jumpers in legacy networks.



Singlemode jumpers and pigtails use our industry-recognized EasyBand[®], while multimode jumpers and pigtails use our and MaxBand[®] fiber and the connectors may be ordered with standard physical contact (PC), ultra physical contact (UPC) and also angled physical contact (APC) end face finish, to reduce back reflections to less than -65 dB. Multimode jumpers are available with either 62. 5- or 50-micron core sizes to match system requirements. Multimode connectors are polished to a physical contact standard for back reflections lower than -40 dB.

Nitrotel Jumpers are 100% tested to meet rigorous optical, geometric, and surface defect specifications and have demonstrated significant improvements in network performance and reliability for high power, high bit rate systems.

Customized lengths can be ordered in 1-meter increments.

Features

- Singlemode (9/125) and multimode (62.5/125 and 50/125) jumpers in simplex or duplex configuration.
- Connector types include SC, FC, LC, E2000, and MT-RJ.
- Singlemode connectors are available with PC, APC and UPC Type
- Customized fiber lengths, connector pairs, and hybrids can be specified.
- Buffer size: 900 µm
- Jacket PVC or LSZH

Specifications

Specification	Units	Premium Grade	
Insertion Loss (@1310 nm, 1550 nm) Singlemode	dB	0.20	
Multimode	dB	0.40	
Return Loss (@1310 nm, 1550 nm)			
APC ferrule end face finish (singlemode)	dB	>65	
UPC ferrule end face finish (singlemode)	dB	>55	
PC (multimode)	dB	>40	
End Face Geometry		Tighter tolerances than	
		Telcordia GR-326 Issue 3	
Length Tolerance			
1 to 10 meter lengths	m	±0.1	
>10 meter lengths	m	±0.3	
Operating Temperature	°C	-40 to +65	
Testing for Insertion Loss & Return Loss		100%	





EasyBand® Plus Bending Insensitive Single-mode Fiber

Descriptions

Nitrotel EasyBand® Plus bending insensitive single mode fiber combines two attractive features: excellent low macro-bending sensitivity and low water-peak level. It is comprehensively optimized for use in O-E-S-C-L band (1260 -1625 nm). The EasyBand® plus's bending insensitive feature not only guarantees L-band applications but also allows for easy installation without excessive care when storing the fiber especially for Fiber-to-the-Home networks application. Bending radius in fiber guidance ports can be reduced as well as minimum bend radius in wall and corner mountings. Moreover, it has the same mode field diameter as standard single mode fiber, which ensures that it has low connection loss with standard single mode fiber (including fusion splicing and mechanical coupling, etc.) and high power-handling for increased access network capability and flexibility.

Nitrotel EasyBand® Plus bending insensitive single mode fiber meets or exceeds the ITU-T Recommendation G.652.D/G.657.A1/G.657.A2/G.657.B2 including the IEC 60793-2-50 type B1.3/B6 Optical Fiber Specification.

Application

- All types of fiber cables with different structures
- · High performance optical network operating in O-E-S-C-L band
- · High speed optical routes for Fiber-to-the-Home networks
- Cables with extreme low bending requirements
- Small-sized fiber cable and optical component
- Application in L band (1565-1625 nm)
- 1 & 10 & 40 & 100 Gb/s Ethernet

Process

Nitrotel optical fibers are manufactured using the advanced Plasma Activated Chemical Vapor Deposition (PCVD) process. Because of the inherent advantages of the process, Nitrotel fibers show ultra accurate refractive index (RI) profile control, excellent geometrical performance, low attenuation, etc. High performance bending insensitivity requires a special Freon-Downdoped-Cladding design to prevent the optical field to escape. PCVD is the optimal process to realize such cladding design effectively. The optical fiber is coated with Nitrotel's proprietary dual layer UV curable acrylate. This fiber coating system provides the fiber with superior environmental protection. Designed for more stringent tight-buffer cable application, the fiber also performs perfectly in loose buffer constructions and demonstrates a high resistance to micro-bending. Nitrotel's proprietary coating offers very stable coating strip force over a wide range of environmental conditions with no coating residue on the bare glass fiber. In fiber ribbon constructions, this coating system exhibits excellent performance in 60 watersoak tests, exceeding 100 days. The coated optical fiber has high and stable values for the dynamic stress corrosion susceptibility parameter (nd), which provides greatly improved fiber durability when used in harsh environments.

Characteristics

- Extremely high bending loss resistance in the 7.5 to 15mm bend radius range
- · Full compatibility with all G.652 fibers for any application
- Low attenuation satisfying the operation demand in O-E-S-C-L band
- Low PMD satisfying high bit-rate and long distance transmission requirements
- Low micro-bending loss for highly demanding cable designs including ribbons
- Accurate geometrical parameters that insure low splicing loss and high splicing efficiency
- High nd-value satisfying long operational lifetime in minimum bend radius







EasyBand Bending Insensitive Single-Mode Fiber (G657A1)

Characteristics	Conditions	Specified Values	Units
Optical Characteristics	2		
Attenuation	1310 nm 1383 nm (after H2-aging) 1460 nm 1550 nm 1625 nm	≤ 0.35 ≤ 0.35 ≤ 0.25 ≤ 0.21 ≤ 0.23	[dB/km] [dB/km] [dB/km] [dB/km] [dB/km]
Attenuation vs. Wavelength Max. α difference	1285~1330 nm 1525~1575 nm	≤ 0.03 ≤ 0.02	[dB/km] [dB/km]
Dispersion coefficient	1285~1340 nm 1550 nm 1625 nm	≥-3.4 ≤3.4 ≤18 ≤22	[ps/(nm·km)] [ps/(nm·km)] [ps/(nm·km)]
Zero dispersion wavelength		1300 1324	[nm]
Zero dispersion slope Typical value		≤ 0 092 0.086	[ps/(nm2·km)] [ps/(nm2·km)]
PMD Maximum Individual Fibre Link Design Value (M=20,Q=0.01%) Typical value Cable cutoff wavelengthλ cc Mode field diameter (MFD)	1310 nm 1550 nm	≤ 0.1 ≤ 0.06 0.04 ≤ 1260 8.4 9.2 0.3 10.3	[ps/ km] [ps/ km] [ps/ km] [nm] [µm] [µm]
Effective group index of refraction (Neff)	1310 nm 1550 nm	1.466	
Point discontinuities	1310 nm 1550 nm	≤ 0.05 ≤ 0.05	[dB] [dB]
Geometrical Characteristics			
Cladding diameter		125.0+0.7	[µm]
Cladding non-circularity		< 0.7	[%]
Coating diameter		245± 5	[µm]
Coating-cladding concentricity error		≤ 12.0	[µm]
Coating non-circularity		≤ 6.0	[%]
Core-cladding concentricity error		≤ 0.5	[µm]
Curl (radius)		≥ 4	[m]
Environmental Characteristics	(1310 nm, 1550 nm & 1625 nm)	2.1 to 50.4	[KIII/Teel]
Temperature dependence	-60 to +85	≤ 0.05	[dB/km]
Temperature-humidity cycling Induced attenuation at	-10 to +85 ,98% RH	≤ 0.05	[dB/km]
Watersoak dependence Induced attenuation at	23 , for 30 days	≤ 0.05	[dB/km]
Damp heat dependence Induced attenuation at	85 and 85% RH, for 30 days	≤ 0.05	[dB/km]
Dry heat aging at	85 , for 30 days	≤ 0.05	[dB/km]
Mechanical Specification			
Proof test	off line	≥ 9.0 ≥ 1.0 ≥ 100	[N] [%] [kpsi]
Macro-bend induced attenuation 10 turns around a mandrel of 15 mm radius 10 turns around a mandrel of 15 mm radius 1 turn around a mandrel of 10 mm radius 1 turn around a mandrel of 10 mm radius	1550 nm 1625 nm 1550 nm 1625 nm	≤ 0.25 ≤ 0.1 ≤ 0.75 ≤ 1.5	[dB] [dB] [dB] [dB]
Coating strip force	average torce (typical) peak force	1.7 ≥ 1.3_≤ 8.9	[N] [N]
Dynamic stress corrosion susceptibility	parameter nd (typical)	20	



Rev. 03/21



MaxBand[®] OM2+/0M3/0M4 Multimode Fiber

NITROTEL MaxBand at OM2+ Multimode Fiber complies with or exceeds ISO/IEC 11801 Om2 specification, IEC 60793-2-10 type A1a.1 Optical Fiber Specification, and TIA/EIA-492AAAB-A detail specification.

NITROTEL MaxBand at OM3/0M4 Multimode Fibers comply with or exceed ISO/IEC 11801 OM3/0M4 specification, IEC 60793-2-10 type A1a.2 and A1a.3 Optical Fiber Specification, and TIA/EIA-492AAAC/492AAAD detail specification.

Features

- 850nm laser-optimized
- Extremely refined refractive index profile
- Low differential mode delay (DMD)
- Low attenuation
- Superior geometry, uniformity

- Coated with Nitrotel's proprietary dual applications layer UV curable acrylate

Benefits and Applications

- Data centers
- Storage Area Networks
- High performance computing centers
- Central offices
- Local Area Networks
- 1 & 10 & 40 & 100 Gb/s Ethernet
- Optimized performance in tight-buffer cable
- High resistance to micro-bending
- -Stable performance over a wide range of environmental conditions





Nitrotel MaxBand ® OM2+/OM3/OM4 Multimode Fiber

Geometry Characteristics Core Non-Circularity Implementation State Implementation Const Non-Circularity 1 126.03.1.0 Implementation Implementation Catading Non-Circularity 1 245.27 Implementation Implementation Coating/Eddating Concentricity Error 245.27 Implementation Implementation Coating/Eddating Concentricity Error 46.60 [%] Implementation Core(Cading Concentricity Error 46.60 [%] Implementation Core(Cading Concentricity Error 46.60 [%] Implementation Core(Cading Concentricity Error 46.70 [M] Implementation Core(Cading Concentricity Error 46.70 [%] Implementation Core(Cading Error 850mn 27.70 [%] Implementation Core(Cadin Error	Characteristics	Conditions	Specified Values	Units				
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Group Refractive Index850nm 1300nm1.482 1.477Zero Dispersion Wavelength, λ_0 1295–1340[nm]Zero Dispersion Slope, So1295mm $\leq \lambda_0 \leq 1310$ nm 1310nm $\leq \lambda_0 \leq 1340$ nm ≤ 0.105 [ps/(nm² · km)]Macrobending Loss850nm 1300nm ≤ 0.500 [dB]100 Turns @ 37.5mm Radius850nm 1300nm ≤ 0.50 [dB]2 Turns @15 mm Radius850nm 1300nm ≤ 1.0 [dB]Backscatter Characteristics1300nm ≤ 0.10 [dB]Backscatter Characteristics1300nm ≤ 0.10 [dB]Irregularities Over Fibre Length and Point Discontinuity ≤ 0.10 [dB]Attenuation Uniformity ≤ 0.10 [dB/km]Temperature Cycling -60° C to $+85^{\circ}$ C, 4% to 98% RH ≤ 0.10 [dB/km]Dry Heat85°C, 30 days ≤ 0.10 [dB/km]Damp Heat85°C, 30 days ≤ 0.10 [dB/km]Proof Test 23° , 30 days ≤ 0.10 [dB/km]Proof Test 29.0 [%] ≥ 1.0 Proof Test 27 ≤ 1.3 ≤ 1.3 Dunamic Stress Corrosion Suscentibility Parameter (net, bruical) 27 $=$	Numerical Aperture		0.200 ± 0.015					
Instant1300nm1.477InstantZero Dispersion Wavelength, λ_0 Imm1295-n1340[nm]Zero Dispersion Slope, So1295nm $\lambda_0 \leq 1310nm$ ≤ 0.105 [ps/(nm² · km]]Macrobending Loss1310nm $\leq \lambda_0 \leq 1340nm$ $\leq 0.000375(1590 - \lambda_0)$ [ps/(nm² · km]]Macrobending Loss850nm ≤ 0.50 [dB]100 Turns @ 37.5mm Radius850nm ≤ 0.50 [dB]2 Turns @ 15 mm Radius850nm ≤ 0.50 [dB]Backscatter Characteristics1300nm ≤ 1.0 [dB]Backscatter Characteristics1300nm ≤ 0.10 [dB]Irregularities Over Fibre Length and Point Discontinity ≤ 0.10 [dB]Attenuation Uniformity ≤ 0.10 [dB/km]Temperature Cycling -60° C to $+85^{\circ}$ C. 4% to 98% RH <0.10 [dB/km]Temperature Length and Point Discontinity ≤ 0.10 [dB/km]Damp Heat 85° , 30 days <0.10 [dB/km]Damp Heat 85° , 30 days <0.10 [dB/km]Damp Heat 85° , 30 days <0.10 [dB/km]Coating Strip Forcetypical average force peak force >1.3 <8.9 [N]Dunamic Stress Corresion Suscentibility Parameter, (ru, tupical) >77 <77 <77	Group Refractive Index	850nm	1.482					
Zero Dispersion Wavelength, λ_0 1295-1340[nm]Zero Dispersion Slope, So1295nm $\leq \lambda_0 \leq 1310$ nm ≤ 0.105 [ps/(nm ² + km)]Macrobending Loss1310nm $\leq \lambda_0 \leq 1340$ nm $\leq 0.000375(1590 - \lambda_0)$ [ps/(nm ² + km)]Macrobending Loss850nm ≤ 0.50 [dB]100 Turns @ 37.5mm Radius850nm ≤ 0.50 [dB]2 Turns @15 mm Radius850nm ≤ 1.0 [dB]1300nm ≤ 0.50 [dB]Backscatter Characteristics1300nm ≤ 1.0 [dB]1300nm ≤ 0.10 [dB]Step (Mean of Bidirectional Measurement) ≤ 0.10 [dB]Irregularities Over Fibre Length and Point Discontinuity ≤ 0.10 [dB]/km]Attenuation Uniformity ≤ 0.10 [dB]/km]Temperature Cycling -60° C to $+85^{\circ}$ C, 4% to 98% RH ≤ 0.10 [dB]/km]Only Heat 85° C, 30 days ≤ 0.10 [dB]/km]Dy Heat 85° C, 30 days ≤ 0.10 [dB]/km]Damp Heat 85° C, 85% RH, 30 days ≤ 0.10 [dB]/km]Droof Test ps_0 [N] ≥ 1.0 Proof Test ps_0 [N] ≥ 1.0 $[\%]$ Proof Test ps_0 [N] $\geq 1.3 < 8.9$ [N]Dunamic Stress Corrosion Suscentibility Parameter (og torical) ≥ 7.7 $\geq 1.3 < 8.9$ [N]		1300nm	1.477					
Zero Dispersion Slope, So1295nm $\leq \lambda_0 \leq 1310$ nm $1310nm \leq \lambda_0 \leq 1340$ nm ≤ 0.105 $\leq 0.000375(1590 - \lambda_0)$ $[ps/(nm^2 \cdot km)]$ $[ps/(nm^2 \cdot km)]$ Macrobending Loss 100 Turns @ 37.5mm Radius $B50$ nm 1300 nm ≤ 0.50 $[dB]$ 2 Turns @ 15 mm Radius $B50$ nm 1300 nm ≤ 1.0 $[dB]$ Backscatter Characteristics1300nm ≤ 1.0 $[dB]$ Backscatter Characteristics1300nm ≤ 0.10 $[dB]$ Backscatter Characteristics1300nm ≤ 0.10 $[dB]$ Attenuation Uniformity ≤ 0.10 $[dB]$ Temperature Over Fibre Length and Point Discontinuity Attenuation Uniformity ≤ 0.10 $[dB]/km]$ Temperature Cycling -60° C to $+85^{\circ}$ C ≤ 0.10 $[dB]/km]$ Temperature Cycling -10° C to $+85^{\circ}$ C ≤ 0.10 $[dB]/km]$ Dry Heat 85° C, 30 days ≤ 0.10 $[dB]/km]$ Damp Heat 85° C, 30 days ≤ 0.10 $[dB]/km]$ Damp Heat 85° C, 30 days ≤ 0.10 $[dB]/km]$ Proof Test $pa0$ $[N]$ ≥ 1.0 $[dB]/km]$ Proof Test $pa0$ $[N]$ ≥ 1.0 $[k]/si]$ Coating Strip Forcetypical average force peak force ≥ 1.3 ≤ 8.9 $[N]$ Dynamic Stress Corrosion Suscentibility Parmeter (ng typical) 27 $=$ $=$	Zero Dispersion Wavelength, λ ₀		1295-1340	[nm]				
Image: constraint of the set of the se	Zero Dispersion Slope, So	1295nm≤λ₀≤1310nm	≤0.105	[ps/(nm² • km)]				
Macrobending Loss 100 Turns @ 37.5mm Radius $850nm$ 1300nm ≤ 0.50 ≤ 0.50 [dB] [dB]2 Turns @15 mm Radius $850nm$ $a 1.0$ ≤ 1.0 $dB]$ [dB]2 Turns @15 mm Radius $850nm$ $a 1.0$ ≤ 1.0 $dB]$ [dB]Backscatter Characteristics $1300nm$ ≤ 1.0 $a 1.0$ [dB]Backscatter Characteristics $1300nm$ ≤ 0.10 [dB]Backscatter Characteristics $1300nm$ ≤ 0.10 [dB]Attenuation Uniformity ≤ 0.10 [dB]Imperature Cycling $-60^{\circ}C$ to $+85^{\circ}C$ ≤ 0.10 [dB/km]Temperature Cycling $-60^{\circ}C$ to $+85^{\circ}C$ ≤ 0.10 [dB/km]Temperature Cycling $-10^{\circ}C$ to $+85^{\circ}C$ ≤ 0.10 [dB/km]Dry Heat $23^{\circ}C$, 30 days ≤ 0.10 [dB/km]Dry Heat $85^{\circ}C$, 30 days ≤ 0.10 [dB/km]Dry Heat $85^{\circ}C$, 30 days ≤ 0.10 [dB/km]Dry Matrix Experision $23^{\circ}C$, 30 days ≤ 0.10 [dB/km]Dry Matrix Experision $23^{\circ}C$, 30 days ≤ 0.10 [dB/km]Dry Matrix Experision $23^{\circ}C$, 30 days ≤ 0.10 [dB/km]Dry Matrix Experision $23^{\circ}C$, 30 days ≤ 0.10 [dB/km]Dry Matrix Experision $23^{\circ}C$, 30 days ≤ 0.10 [dB/km]Dry Matrix Experision $23^{\circ}C$, 30 d		1310nm≤ λ₀≤1340nm	<0.000375(1590−λ₀)	[ps/(nm² • km)]				
100 Turns @ 37.5mm Radius850nm < 0.50 [dB]1300nm < 0.50 [dB]2 Turns @15 mm Radius850nm < 1.0 [dB]1300nm < 1.0 [dB]1300nm < 1.0 [dB]Backscatter Characteristics1300nm < 0.10 [dB]Step (Mean of Bidirectional Measurement) < 0.10 [dB]Irregularities Over Fibre Length and Point Discontinuity < 0.08 [dB/km]Attenuation Uniformity < 0.08 [dB/km]Environmental Characteristics < 0.10 [dB/km]Temperature Cycling -60° C to $+85^{\circ}$ C < 0.10 [dB/km]Temperature Cycling -10° C to $+85^{\circ}$ C, 4% to 98% RH < 0.10 [dB/km]Dry Heat 85° C, 30 days < 0.10 [dB/km]Damp Heat 85° C, 85% RH, 30 days < 0.10 [dB/km]Proof Test $Proof Test$ > 9.0 [N]Proof Test < 9.0 [N] > 1.0 Dry Heat < 0.10 [kpsi]Dry Heat < 0.10 [kpsi]Deal Strip Force $< peak force$ > 9.0 [N]Proof Test $< peak force$ > 1.5 [N]Dry Heat > 1.0 [kpsi] > 100 [kpsi]Dry Heat $< peak force$ > 1.3 < 8.9 [N]Dry Heat > 1.3 < 8.9 [N]Dry Heat $< peak force$ > 1.3 < 8.9 [N]	Macrobending Loss							
2 Turns @15 mm Radius1300nm ≤ 0.50 [dB]2 Turns @15 mm Radius850nm ≤ 1.0 [dB]Backscatter Characteristics1300nm ≤ 1.0 [dB]Backscatter Characteristics1300nm ≤ 0.10 [dB]Step (Mean of Bidirectional Measurement) ≤ 0.10 [dB]Irregularities Over Fibre Length and Point Discontinuity ≤ 0.10 [dB]Attenuation Uniformity ≤ 0.008 [dB/km]Environmental Characteristics ≤ 0.10 [dB/km]Temperature-Humidity Cycling $-60^{\circ}C$ to $+85^{\circ}C$ ≤ 0.10 [dB/km]Temperature-Humidity Cycling $-10^{\circ}C$ to $+85^{\circ}C$, 4% to 98% RH ≤ 0.10 [dB/km]Dry Heat85°C, 30 days ≤ 0.10 [dB/km]Damp Heat85°C, 30 days ≤ 0.10 [dB/km]Droof Test $pance Fibre Fibre$	100 Turns @ 37.5 <mark>mm Radius</mark>	850nm	≤0.50	[dB]				
$\begin{array}{c c c c c c c c } 2 \ Turns @15 \ mn \ Radius & 850 nm & < 1.0 & [dB] \\ \hline 1300 nm & < 1.0 & [dB] \\ \hline < 1.0 & [dB] \\ \hline \\ $		1300nm	≤0.50	[dB]				
Image: second	2 Turns @15 mm Radius	850nm	≤1.0	[dB]				
Backscatter Characteristics1300nmImage: constraint of the second		1300nm	≤1.0	[dB]				
Step (Mean of Bidirectional Measurement) ≤ 0.10 [dB]Irregularities Over Fibre Length and Point Discontinuity ≤ 0.10 [dB]Attenuation Uniformity ≤ 0.08 [dB/km]Environmental CharacteristicsTemperature Cycling -60° C to $+85^{\circ}$ C ≤ 0.10 [dB/km]Temperature-Humidity Cycling -10° C to $+85^{\circ}$ C, 4% to 98% RH ≤ 0.10 [dB/km]Water Immersion 23° C, 30 days ≤ 0.10 [dB/km]Dry Heat 85° C, 30 days ≤ 0.10 [dB/km]Damp Heat 85° C, 85% RH, 30 days ≤ 0.10 [dB/km]Proof Test 29.0 [N][%]Coating Strip Forcetypical average force peak force 1.5 [N]Dynamic, Stress Corrosion Suscentibility Parameter (nd. typical) 27 $ -$	Backscatter Characteristics	1300nm						
Irregularities Over Fibre Length and Point Discontinuity ≤ 0.10 $[dB]$ Attenuation Uniformity < 0.08 $[dB/km]$ Environmental CharacteristicsTemperature Cycling -60° C to $+85^{\circ}$ C, 4% to 98% RH ≤ 0.10 $[dB/km]$ Temperature-Humidity Cycling -10° C to $+85^{\circ}$ C, 4% to 98% RH ≤ 0.10 $[dB/km]$ Water Immersion 23° C, 30 days ≤ 0.10 $[dB/km]$ Dry Heat 85° C, 30 days ≤ 0.10 $[dB/km]$ Damp Heat 85° C, 85% RH, 30 days ≤ 0.10 $[dB/km]$ Proof Test $pechanical Specification$ $[m]$ Proof Test $penomena Proof Proo$	Step (Mean of Bidirectional Measurement)		≤0.10	[dB]				
Attenuation Uniformity ≤ 0.08 [dB/km]Environmental CharacteristicsTemperature Cycling -60° C to $+85^{\circ}$ C ≤ 0.10 [dB/km]Temperature-Humidity Cycling -10° C to $+85^{\circ}$ C, 4% to 98% RH ≤ 0.10 [dB/km]Water Immersion 23° C, 30 days ≤ 0.10 [dB/km]Dry Heat 85° C, 30 days ≤ 0.10 [dB/km]Damp Heat 85° C, 85% RH, 30 days ≤ 0.10 [dB/km]Mechanical Specification ≥ 9.0 [N]Proof Test ≥ 9.0 [%]Coating Strip Forcetypical average force peak force 1.5 [N]Dynamic Stress Corrosion Suscentibility Parameter (nd, typical) 27 \sim	Irregularities Over Fibre Length and Point Discontinuity	/	≤0.10	[dB]				
Environmental CharacteristicsTemperature Cycling -60° C to $+85^{\circ}$ C ≤ 0.10 [dB/km]Temperature-Humidity Cycling -10° C to $+85^{\circ}$ C, 4% to 98% RH ≤ 0.10 [dB/km]Water Immersion 23° C, 30 days ≤ 0.10 [dB/km]Dry Heat 85° C, 30 days ≤ 0.10 [dB/km]Damp Heat 85° C, 85% RH, 30 days ≤ 0.10 [dB/km]Mechanical Specification[dB/km][dB/km]Proof Test ≥ 9.0 [N]Proof Test ≥ 1.0 [%] ≥ 100 [kpsi]Coating Strip Forcetypical average force peak force1.5[N]Dynamic Stress Corrosion Suscentibility Parameter (nd. typical) 27 $=$	Attenuation Uniformity		≤0.08	[dB/km]				
Temperature Cycling $-60^{\circ}C$ to $+85^{\circ}C$ ≤ 0.10 [dB/km]Temperature-Humidity Cycling $-10^{\circ}C$ to $+85^{\circ}C$, 4% to 98% RH ≤ 0.10 [dB/km]Water Immersion $23^{\circ}C$, 30 days ≤ 0.10 [dB/km]Dry Heat $85^{\circ}C$, 30 days ≤ 0.10 [dB/km]Damp Heat $85^{\circ}C$, 85% RH, 30 days ≤ 0.10 [dB/km]Mechanical Specification ≥ 9.0 [N]Proof Test ≥ 9.0 [%]Coating Strip Forcetypical average force peak force 1.5 [N]Dynamic Stress Corrosion Suscentibility Parameter (nd. typical) 27 $= 1.0$	Environmental Characteristics							
Temperature-Humidity Cycling -10° C to $+85^{\circ}$ C, 4% to 98% RH ≤ 0.10 [dB/km]Water Immersion 23° C, 30 days ≤ 0.10 [dB/km]Dry Heat 85° C, 30 days ≤ 0.10 [dB/km]Damp Heat 85° C, 85% RH, 30 days ≤ 0.10 [dB/km]Mechanical Specification ≥ 9.0 [N]Proof Test ≥ 9.0 [%]Coating Strip Forcetypical average force peak force 1.5 [N]Dynamic Stress Corrosion Susceptibility Parameter (nd. typical) 27 27	Temperature Cycling	-60°C to +85°C	≤0.10	[dB/km]				
Water Immersion23°C, 30 days ≤ 0.10 [dB/km]Dry Heat85°C, 30 days ≤ 0.10 [dB/km]Damp Heat85°C, 85% RH, 30 days ≤ 0.10 [dB/km]Mechanical Specification ≥ 9.0 [N]Proof Test ≥ 9.0 [%]Coating Strip Forcetypical average force peak force1.5Dynamic Stress Corrosion Susceptibility Parameter (nd. typical)27	Temperature-Humidity Cycling	-10°C to +85°C, 4% to 98% RH	≤0.10	[dB/km]				
Dry Heat85°C, 30 days ≤ 0.10 [dB/km]Damp Heat85°C, 85% RH, 30 days ≤ 0.10 [dB/km]Mechanical Specification ≥ 9.0 [N]Proof Test ≥ 9.0 [N]Coating Strip Forcetypical average force1.5peak force $\geq 1.3 \leq 8.9$ [N]Dynamic Stress Corrosion Susceptibility Parameter (nd. typical) 27	Water Immersion	23°C. 30 days	≤0.10	[dB/km]				
Damp Heat $85^{\circ}C, 85^{\circ}$ RH, 30 days ≤ 0.10 [dB/km]Mechanical Specification ≥ 9.0 [N]Proof Test ≥ 9.0 [N] ≥ 1.0 [%] ≥ 100 [kpsi]Coating Strip Forcetypical average force1.5peak force $\geq 1.3 \leq 8.9$ [N]Dynamic Stress Corrosion Susceptibility Parameter (nd. typical) 27	Dry Heat	85°C, 30 days	≤0.10	[dB/km]				
Mechanical Specification ≥9.0 [N] Proof Test ≥9.0 [N] ≥1.0 [%] ≥100 [kpsi] Coating Strip Force typical average force 1.5 peak force ≥1.3 ≤8.9 [N]	Damp Heat	85°C, 85% RH, 30 days	≤0.10	[dB/km]				
Proof Test ≥9.0 [N] ≥1.0 [%] ≥100 [kpsi] Coating Strip Force typical average force 1.5 peak force ≥1.3 ≤8.9 [N]	Mechanical Specification	, , , , , , , , , , , , , , , , , , , ,		[comprised]				
Proof Post 2.00 1.11 ≥ 1.0 ≥ 1.0 $[\%]$ ≥ 1.0 $[M]$ ≥ 1.3 ≤ 8.9 \square $[M]$ \square <	Proof Test		≥90	[N]				
Local average force 1.5 $[N]$ Coating Strip Forcetypical average force 1.5 $[N]$ peak force $>1.3 < 8.9$ $[N]$ Dynamic Stress Corrosion Susceptibility Parameter (nd typical) 27 27			>10					
Coating Strip Force typical average force 1.5 [N] peak force ≥1.3 ≤8.9 [N]			≥100	[kpsi]				
Openance Stress Corrosion Susceptibility Parameter (nd. typical)1.01.0 27	Coating Strip Force	typical average force	15	[N]				
Dynamic Stress Corrosion Susceptibility Parameter (nd. typical) 27		peak force	≥13 ≤89	[N]				
	Dynamic Stress Corrosion Suscentibility Paran	neter (nd typical)	27					

