

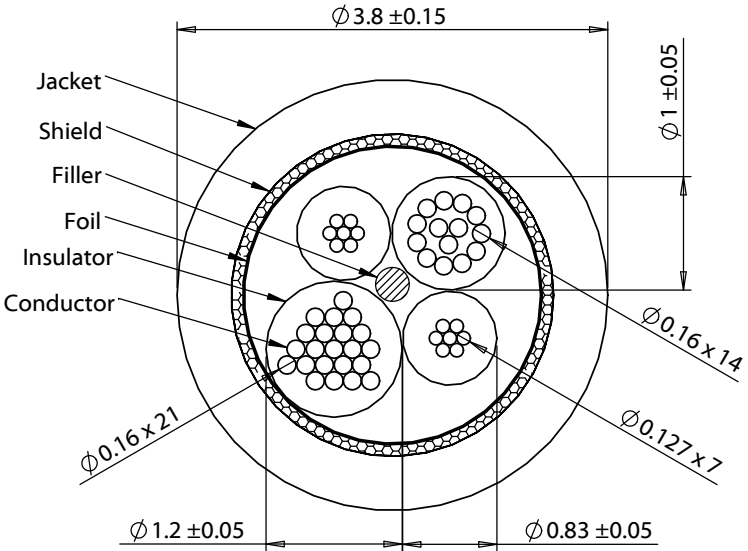
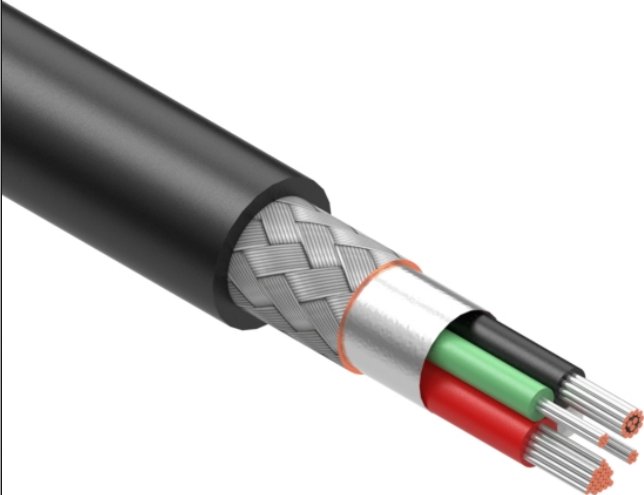
Electrical
Voltage: 30 V
Temperature: 80 °C
Flammability: VW-1

Transmission (USB 2.0)
Speed rating: 480Mbps @ 20V, 3A max

Type-A to Type-C ratings at 3m long wire:
Differential impedance: $90\Omega \pm 15\%$
Common mode impedance: $30\Omega \pm 30\%$
Propagation delay: 5.2ns/m max
Propagation delay skew: 100ps
Conductor resistance unbalance: 5%

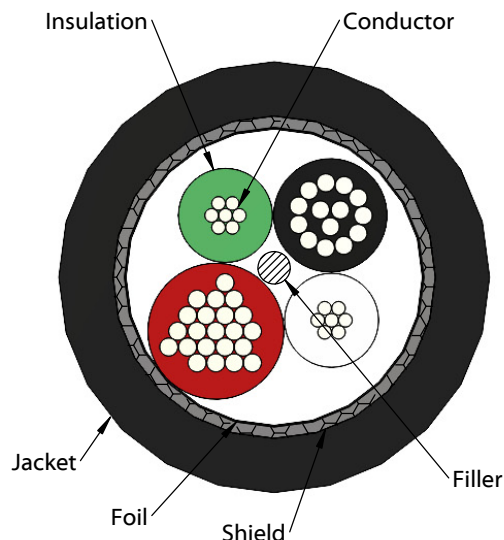
Attenuation @ 3.0M	
MHz	dB
0.512	0.13
0.772	0.15
1	0.2
4	0.39
8	0.57
12	0.76
24	0.95
48	1.35
96	1.9
200	3.2
400	5.8

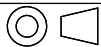
Tests
Dielectric test: 750Vac/s for 1 minute without breakdown
Spark test: 0.5kV (500Vac)
Tensile strength
Jacket: 1.05 kgf/mm²
HD-PE: 1.45 kgf/mm²
PP: 2.1 kgf/mm²
After aging at 113 ± 2 °C for 7 days:
Minimum jacket tensile strength 65 % original
Minimum insulation tensile strength 70 % original (HD-PE, PP)
Minimum elongation 70 % original (jacket and insulation)



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	06/19/2024	Initial release	Verified:	RoHS compliant Function test: no open, no short circuit, no intermittent			
			Dimensions are in millimeters. Tolerances: X: ± 0.5 mm X.X: ± 0.3 mm X.XX: ± 0.05 mm	Description: Wire, 4C TS, 28 to 21 AWG, UL21104, 30 V, 80C, 3.80 mm, shielded, VW-1, TPE, USB 2.0	Size: A	Part number: 30-03502	
					Scale: 15:1		Sheet 1 of 2

Contruction Item		Contruction Item A	Contruction Item B	Contruction Item C
Conductor	Gauge	28 AWG	21 AWG	23 AWG
	Material	Tinned copper	Tinned copper	Tinned copper
	Strand size	7/0.127	21/0.16	14/0.16
	Resistance at 20 °C	237 Ω/km max	43 Ω/km max	68 Ω/km max
Insulator	Material	HD-PE	PP	PP
	Diameter	0.83±0.05 mm	1.2±0.05 mm	1.0±0.05 mm
	Average thickness	0.22 mm	0.17 mm	0.15 mm
	Color	green, white	red	black
	Resistance at 20 °C	100 MΩ/km min	100 MΩ/km min	100 MΩ/km min
Layer	Direction	Left (Z)		
	Filler	Cotton		
Outside-Tape Wrap	Material	Aluminum mylar		
	Conductive Side	Facing Outside		
	Overlap	25% min		
Outside-Shield	Type	Braid		
	Material	Tinned copper		
	Coverage	90% min		
Outside-Jacket	Material	TPE		
	Diameter	3.8±0.15 mm		
	Average thickness	0.56 mm		
	Color	Black		
Wire Marking	Color	White		
	Marking	E339579 UL AWM STYLE 21104 80°C 30V VW-1 USB 2.0 CABLE TENSILITY		



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				Description:			
				Wire, 4C TS, 28 to 21 AWG, UL21104, 30 V, 80C, 3.80 mm, shielded, VW-1, TPE, USB 2.0			

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