

# SPECIFICATION

SPECIFICATION REFERENCE:

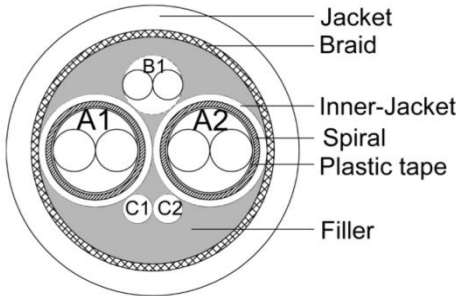
**A87-3502(C)**

CABLE DESCRIPTION:

UL21445 USB3.0 2xParallelPair#26, 1xUSB2 UTP#28, 2C#22 [8.0]

## 1. CONSTRUCTION

		Core A	Core B	Core C
Conductor	Construction AWG	26	28	22
	Conductor Size ( $\pm 0.008\text{mm}$ )	7/0.16	19/0.08+250D Nylon	65/0.08+250D Nylon
	Material	Tinned Copper	Tinned Copper	Tinned Copper
Insulators	Material	FEP	FEP	FEP
	Diameter ( $\pm 0.05\text{mm}$ )	1.02	1.05	1.20
	Average Thickness (mm)	0.25	0.3	0.22
Shielding (1)	Material 1	Plastic Tape	AL-Mylar (Inward)	-
	Material 2	Cu-Mylar	-	-
	Coverage	100% coverage with 25% overlapping	100% coverage with 25% overlapping	-
Shielding (2)	Material	Tinned Copper	-	-
	Coverage	61( $\pm 3$ ) $\times 0.10 \pm 0.008\text{mm}$ 92% coverage	-	-
Inner Jacket	Material	TPE	-	-
	Diameter ( $\pm 0.15\text{mm}$ )	3.1	-	-
	Average Thickness (mm)	0.3	-	-
	Color	Gray	-	-
Filler	Material	Cotton & Nylon		
Tape	Material	Plastic Tape		
	Coverage	100% coverage with 25% overlapping		
Shielding (3)	Material	Tinned Copper		
	Coverage	24/13/0.10 $\pm 0.08\text{mm}$ ; 95% coverage		
Jacket	Material	TPE		
	Diameter ( $\pm 0.3\text{mm}$ )	8.0		
	Average Thickness (mm)	0.5		
	Color	VIOLET		
Print Legend	AWM E357566-ALY-C STYLE 21445 80C 30V VW-1 LF			



## 2. COLOUR SUMMARY

Core	Insulation
A1	Blue / Yellow
A2	Violet / Orange
B1	Green / White
C1	Red
C2	Black

## 3. CABLE PERFORMANCE

Elec. Properties (at 20°C)	Nominal Conductor Resistance at 20°C (Ohms/Km)	(A) 150 (B) 239 (C) 59.4
	Min Insulation Resistance (Polyolefin) at 20°C (Mohms/10m)	100
	Dielectric Strength (V AC/min)	500
	Differential Impedance:	(A) 90 +/- 7 Ohm
	propagation delay skew	Intra-Skew (within Pair) (A) 15ps/M max.
Insertion Loss (Core A)	625MHz	-3.0 db/4M max
	1250MHz	-3.9 db/4M max
	2500MHz	-5.9 db/4M max
	5000MHz	-9.0 db/4M max
	7500MHz	-12.3 db/4M max

## 4. FLEXIBILITY CLASSIFICATION

Static Bend Radius	10 x OD (=80.0mm)
Dynamic Flexing	pls check suitability in application
Chain Cable Compliant to	Chain Cable Compliant 'HN120/0.5' to min. 1 million cycles

## 5. PACKAGING

Cable shall be packaged to ensure no damage during transportation. Standard length = 100m per Roll.

Related Documents:	C18S0548 180626	ISO E
Dimensions without Tolerances according to		DIN 16901 Tol. Gr. 130-B
Drawing Ref:	<b>A87-3502(C)</b>	
Description:	UL21445 USB3.0 2xParallelPair#26, 1xUSB2 UTP#28, 2C#22 [8.0]	
<b>ALYSIUM</b>		
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