



SPECIFICATION CONTROL DRAWING

UB3-24C243X114A

USB CABLE 3.0

Date: 11/9/2016
Revision: C
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THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

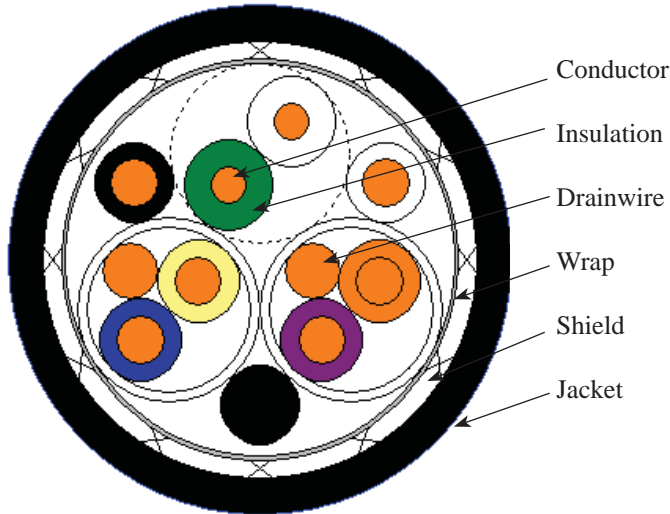


TABLE I

Data	Pair	Wire Insulation Color
A	1	9 (white) / 5 (green)
B	1	3 (orange) / 7 (purple)
B	2	4 (yellow) / 6 (blue)
Power	Wire	
C	1	9 (white)
C	2	0 (black)

Color code designators shall be in accordance with MIL-STD-681.

		<u>Dimensions</u> inches (nom)
<u>Data Pair A (Data)</u>		
Conductor:	AWG 24 19/36, silver-coated copper	.0235
Insulation	FEP	.048
<u>Data Pair B (Data)</u>		
Conductor:	AWG 24 19/36, silver-coated copper	.0235
Insulation:	FEP	.063
Drainwire:	AWG 24 19/36, silver-coated copper	.0235
Shield:	AL/PET .002" thick (AL- facing in)	.134
<u>Primary Wire C (Power)</u>		
Conductor:	AWG 22 19/34, silver-coated copper	.0293
Insulation:	FEP	.0455
<u>Cable Assembly</u>		
Filler:	FEP	.051
Core:	1 of component A 2 of component B 2 of component C	.269
Wrap:	PET .001" thick	.273
Outer Shield:	AWG 36, tin-coated copper 85% coverage (min)	.294
Jacket:	FEP .022" thick	.339 + .017
Cable Weight:	70.20 lb/kft	

Designate outer jacket color with a dash number appended to the part number.
Example: Black jacket; UB3-24C243X114A-0.

ADDITIONAL REQUIREMENTS & RATINGS

Temperature Rating: 150° C
Voltage Withstand: 1500 volts (rms), conductor to conductor
500 volts (rms) shield to shield when applicable per NEMA WC 27500
Jacket Flaws: Spark Test 2.5 kV (rms)
Impulse Dielectric 6.0 kV (peak)

Flammability: Shall meet the requirements of FAR part 25, Appendix F, Part 1 when tested in accordance with the 60 degree test specified therein.
Jacket Tensile strength: 2000 psi minimum
Jacket Elongation: 200% min
Cable will be supplied in 50 ft minimum lengths unless otherwise specified

Other codes and suffixes may be added to the part number, as necessary, to capture any additional requirements imposed by the purchase order. Users should evaluate the suitability of this product for their application. Tyco Electronics Corporation also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer. This specification sheet takes precedence over documents referenced herein. Referenced documents shall be of the issue in effect on date of invitation for bid.

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ELECTRICAL REQUIREMENTS

Data Pair A (Data)

Differential Impedance 90 ± 7 ohms

Skew: 100 ps/4.5m (max)

Insertion loss (max): 100 MHz - 1.9 dB/4m
200 MHz - 3.2 dB/4m
400 MHz - 5.8 dB/4m

Data Pair B (Data)

Differential Impedance: 90 ± 7 ohms

Intra-pair Skew: 15 ps/m max

Insertion loss (nom): 625 MHz - 0.9 dB/m
1.25 GHz - 1.3 dB/m
2.5 GHz - 1.9 dB/m
5.0 GHz - 3.1 dB/m
7.5 GHz - 4.2 dB/m

Differential NEXT (wrapped pairs only): Minimum limit defined by the vertices:

32 dB at 100 MHz and 2500 MHz.

23 dB at 3 GHz

23 dB at 7.5 GHz

(4.5m sample)

NEXT and FEXT between unshielded data pair, and shielded data pair: Minimum limit defined by the vertices:

21 dB at 100 MHz and 2500 MHz

15 dB at 3 GHz

15 dB at 7.5 GHz

(4.5m sample)