



SPECIFICATION CONTROL DRAWING

U31-26C493C124

USB CABLE 3.1

Date: 6/14/2021
Revision: Issue B
Page 1 of 2

THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

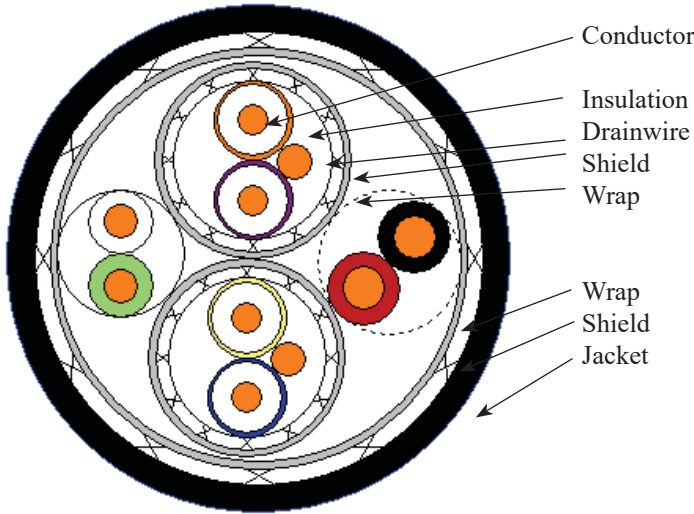


TABLE I

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

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

Data Pair A (Data)		Dimensions Inches (nom)
Conductor:	AWG 26 19/38 SCHCA	.0185
Insulation:	Foamed FEP	.035
Data Pairs B (Data)		
Conductor:	AWG 26 19/38 SCHCA	.0185
Insulation:	Foamed FEP/FEP	.044
Drainwire:	AWG 26 19/38 SCHCA	.0185
Shield:	AWG 40 Silver copper (90% min coverage)	.101
Wrap:	PTFE .004 (25% min overlap)	.109
Twisted Pair Cable C (Power)		
Conductor:	AWG 24 19/36 SCHCA	.0233
Insulation:	FEP	.0395
Cable Assembly		
Core:	1 of component A 2 of component B 1 of component C	.222
Wrap:	PTFE .004 (25% min overlap)	.230
Shield:	AWG 38 silver copper (90% min coverage)	.247
Jacket:	FEP .015	.277 +.014
Weight:	52.44 lbs/kft	

Designate outer jacket color with a dash number appended to the part number. Example: Black jacket; U31-26C493C124-0.

ADDITIONAL REQUIREMENTS & RATINGS

Temperature Rating: 200°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. Users should evaluate the suitability of this product for their application. TE Connectivity 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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Page: 2 of 2

ELECTRICAL REQUIREMENTS

Data Pair A (Data)

Impedance 90 ± 13.5 ohms

Skew: 100 ps/4.5m (max)

Insertion loss (max): 100 MHz - 2.9 dB/4.5m
200 MHz - 4.2 dB/4.5m
400 MHz - 6.8 dB/4.5m

Data Pairs B (Data)

Impedance: 90 ± 5 ohms

Intra-pair Skew: 15 ps/m (max)

Insertion loss (nom): 630 MHz - 2.9 dB/m
1.25 GHz - 4.3 dB/m
2.5 GHz - 5.9 dB/m
5.0 GHz - 6.7 dB/m
7.5 GHz - 7.00 dB/m

Component Data Pair A

Differential NEXT : Maximum 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)

Component Data Pairs B

NEXT and FEXT : Maximum 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)