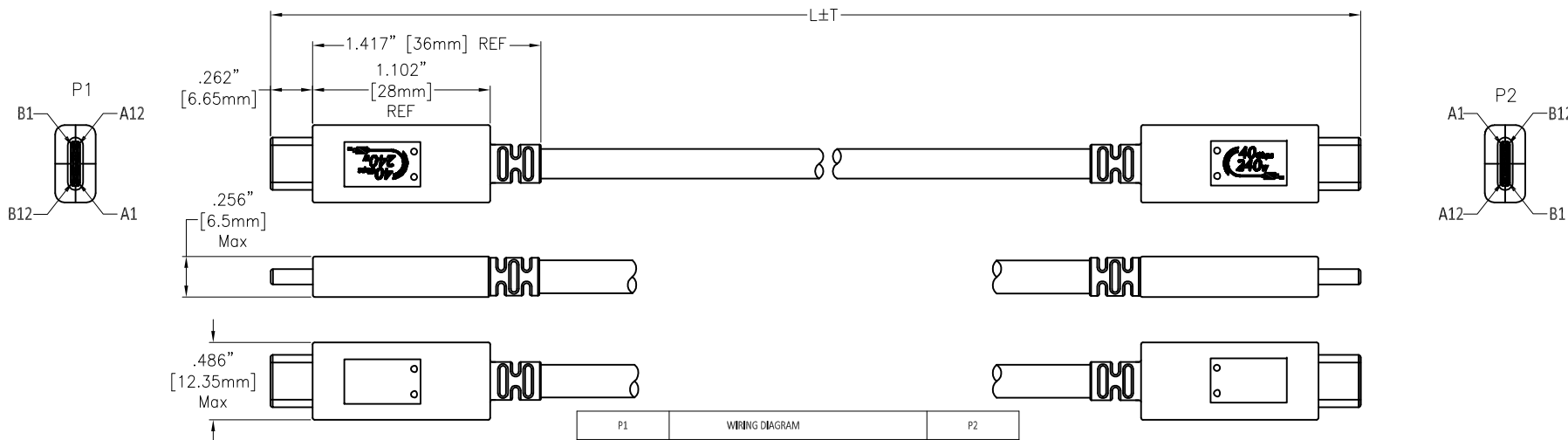


APPROVED: _____

DATE: _____ TITLE: _____

Rev	AWO #	Description	Date	Appr
-		RELEASED	4/12/23	
A		ADDED PAGE 2 CABLE SPEC.	8/7/23	LH/RC



CONDUCTOR COMPONENT

A—4P×29AWG: Clear*Clear Blue Mylar Color: 1. Clear 2. Red 3. Blue 4. Green

B—1 P×32AWG: 5. White*Green

C—1 C×32AWG+AL: 6. Blue

D—3 C×32AWG 7. Purple 8. Yellow 9. Pink

E—1 C×23AWG: 10. Red

P1		WIRING DIAGRAM				P2	
USB C PLUG		WIRE				USB C PLUG	
PIN	SIGNAL NAME	WIRE NUMBER	CONDUCTOR COMPONENT	SIGNAL NAME	WIRE COLOR	PIN	SIGNAL NAME
A1, B1 A12, B12	GND	1	DRAIN+BRAID	GND_PWRt1 [GND_PWRt2]	SDP1+SDP2 SDP3+SDP4 DRAIN	A1, B1 A12, B12	GND
A4, B4 A9, B9	VBUS	2	COMPONENT E	PWR_VBUS1 [PWR_VBUS2]	RED	A4, B4 A9, B9	VBUS
A5	CC	3	COMPONENT C	CC	BLUE	A5	CC
B5	VCONN	18	COMPONENT D	PWR_VCONN	YELLOW	B5	VCONN
A6	Dp1	4	COMPONENT B	UTP_Dp	GREEN	A6	Dp1
A7	Dn1	5		UTP_Dn	WHITE	A7	Dn1
A2	SSTxp1	6	COMPONENT A	SDPp1	RED (BLUE)	B11	SSRXp1
A3	SSTxn1	7		SDPn1	RED (WHITE)	B10	SSRXn1
B11	SSRXp1	8		SDPp2	BLUE (WHITE)	A2	SSTxp1
B10	SSRXn1	9		SDPn2	BLUE (BLUE)	A3	SSTxn1
B2	SSTxp2	10		SDPp3	GREEN (BLUE)	A11	SSRXp2
B3	SSTxn2	11		SDPn3	GREEN (WHITE)	A10	SSRXn2
A11	SSRXp2	12		SDPp4	SILVER (WHITE)	B2	SSTxp2
A10	SSRXn2	13		SDPn4	SILVER (BLUE)	B3	SSTxn2
A8	SBU1	14	COMPONENT D	SBU_A	VIOLET	B8	SBU2
B8	SBU2	15		SBU_B	PINK	A8	SBU1
SHELL	SHIELD	BRAID		SHIELD	BRAID	SHELL	SHIELD

SPECIFICATIONS:

Connector:

P1&P2= USB C Plug 4.0, Insulator Color: Black, Contact: 30u" Gold plated, W/Extruded shell
Overmold Color: Black, TPE

Cable:

USB4.0 Cable, #29TP/32/23 ADB, O.D.: .213" [5.4mm], Jacket color: TPE, Black

Electrical:

Voltage rating: 150 VDC

Contact resistance: 5 ohms max

Insulation resistance: 2 Mohms min

Voltage drop: VBUS=500mV Max, GND=250mV

Electrical Test:

All Assemblies must be 100% Tested for
Shorts, Open, Continuity, and Physical Appearance.

Environmental:

Lead free, RoHS compliant



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS
ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

INCHES	HOLES
.X ± .10	Ø.X ± .10
.XX ± .020	Ø.XX ± .015
.XXX ± .015	Ø.XXX ± .010

DRAWN	WX	4/12/23
CHECKED	RC	4/12/23
APPROVED		

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AND SHOULD NOT BE USED WITHOUT PRIOR WRITTEN
PERMISSION FROM ADAM TECH

**ADAM
TECH**

909 Rahway Avenue,
Union, NJ 07083
Phone: 908-687-5000
Fax: 908-687-5710

TITLE CABLE ASSEMBLY, CABLE USB4.0 #29TP/32/23
USB C 4.0 PLUG TO USB 4.0 C PLUG, O.D.: .213" [5.4mm]
USB4 40GBPS (TWISTED PAIR, 29 AWG)

SIZE	PART NO.	REV.
X	CA-USB4-CM/CM-XXM-A1	A

REF: S00013T SCALE: NTS SHEET 1 OF 2

6

5

4

3

2

1

APPROVED: _____

DATE: _____ TITLE: _____

Rev

AWO #

Description

Date

Appr

SEE SHT 1 OF 2 FOR REVISION

SPECIFICATION

(1P*29#+DAM)*4C +(1P*32#+AM) +1 C*23#+(1C*32# +AL)+3C*32#+ ADB /UL 21104

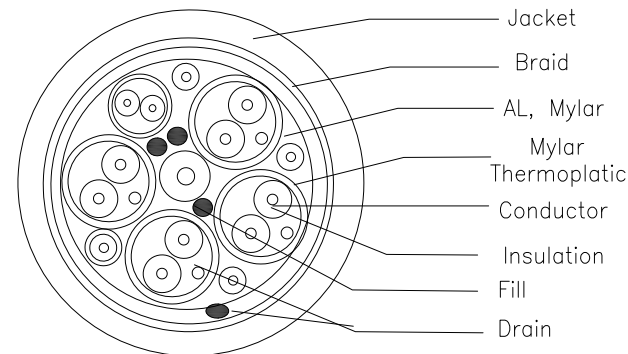
ITEM		SPECIFICATION				
CONDUCTOR	AWG	29AWG	32 AWG	23 AWG		
	MATERIAL	BC	BC	TC+NYLON		
	COND.SIZE	1/0.30±0.01 mm	7/0.08±0.008 mm	18 /0.05±0.008 mm	52/0.08±0.008mm	
INSULATION	MIN.AVG.THICK	0.25 mm	0.15 mm	0.10mm	0.10 mm	
	MATERIAL	PE	PE	PP	PP	
	O . D	0.88 ±0.08 mm	0.58 ±0.08 mm	0.45±0.08mm	0.95±0.08mm	
	N O.	1P*4	1P	1C	3C	1C
COVERING	MATERIAL	/	/	/	/	/
	O . D	/	/	/	/	/
DRAIN	AWG	30AWG	/	/	/	/
	SIZE	1/0.254±0.01 mm	/	/	/	/
Face Outside	COVERAGE	100%	100%	100%	/	/
AL.Mylar	OVERLAP	25% MIN	25% MIN	25% MIN	/	/
Mylar	COVERAGE	100%	100%	/	/	/
THERMOPLASTIC	OVERLAP	25% MIN	25% MIN	/	/	/
	N O.	4P	1P	(1C+AL)	3C	1C
Face Outside	COVERAGE	100%				
AL.MYLAR	OVERLAP	25% MIN				
DRAIN	MATERIAL	TC				
	SIZE	7/0.10±0.008 mm				
BRAID	MATERIAL	TC				
	Coverage	≥85%				
	SIZE	16×13 /0.08±0.008mm				
JACKET	MIN.AVG.THICK	0.40mm				
	MATERIAL	TPE				
	COLOUR	BLACK				
	O . D	5.4 (+/- 0.20)mm				

ELECTRICAL CHARACTERISTICS

1. Rating: TEMP 80℃ ; VOLTAGE 30V
 2. Conductor Resistance: at 20℃ MAX 23AWG:80Ω/km
29AWG:275Ω/km, 32 AWG:588.85Ω/km,
 3. Insulation Resistance: 10MΩ-km min at 20℃ dc 500V. (EIA-364-21)
 4. Dielectric Strength: AC 500V/1minute no breakdown. (EIA-364-20)
 5. Impedance: Pairs(differential mode) 90±5 Ω
- Length for USB4 GEN 3 test 1 Meter

PHYSICAL PROPERTIES OF JACKET

1. Flexibility test: NO CRACKING
2. Flame test: PASS

CONSTRUCTION D.W.G**COLOUR CODE:**

4P×29AWG: Clear*Clear Blue Mylar Color: 1. Clear 2. Red 3. Blue 4. Green
 1 P×32AWG: 5. White*Green
 1 C×32AWG+AL: 6. Blue
 3 C×32AWG 7. Purple 8. Yellow 9. Pink
 1 C×23AWG: 10. Red

MARKING

NO MARKING

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS
ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

INCHES		HOLES	
.X	± .10	Ø.X	±.10
.XX	± .020	Ø.XX	±.015
.XXX	± .015	Ø.XXX	±.010

DRAWN

WX

4/12/23

CHECKED

RC

4/12/23

APPROVED

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TITLE CABLE ASSEMBLY, CABLE USB4.0 #29TP/32/23
USB C 4.0 PLUG TO USB 4.0 C PLUG, O.D: .213" [5.4MM]
USB4 40GBPS (TWISTED PAIR ,29 AWG)

SIZE

X

PART NO.

CA-USB4-CM/CM-XXM-A1

REV.

A

REF: S00013T

SCALE: NTS

SHEET 2 OF 2

6

5

4

3

2

1

Mouser Electronics

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