



YA2CN, 2 AWG, CU, 1 Hole, 1/2 Stud, Long Barrel

By Burndy
Catalog # [YA2CN](#)

2 AWG CU, One Hole, 1/2 Stud Size, Long Barrel, Internal Chamfer, Tin Plated, UL/CSA, 90°C, Up to 35kV, BROWN Color Code, 10 Die Index.

Features

- Barrel designed with internal chamfer at wire entry for smooth insertion of wire, preventing possible damage of the strands
- Long barrel length allows for an increased number of crimps increasing the mechanical strength of the connection
- Electro-tin plated unless otherwise specified to reduce galvanic corrosion (bimetallic) and resist corrosive elements
- Connectors are clearly marked with stamping and barrel color

Application

Wire Termination

General

Catalog Number	YA2CN
Color Code	Brown
Connector Type	LONG BARREL
Die Index	10
EU RoHS Indicator	Yes
Feature - Barrel Style	Chamfered
Feature - Barrel Type	Long
Finish Type	Tin-Plated
Material	COPPER
Physical Attribute - Number of Holes	1
Plated	Y
Plating Type	Tin
Sub Brand	HYLUG
Temperature Rating	194
Trade Name	HYLUG™
Type	Long Barrel, Tin Plated
UPC	781810080207
UPC 14 Digit GTIN	00781810080207

Dimensions

Dimension - B Length inch	1.25 in
Dimension - Bolt Hole Size inch	0.52 in
Dimension - Bolt Size fraction	1/2
Dimension - Bolt Size inch	0.5
Dimension - D inch	1.27 in
Dimension - Hole Size fraction	1/2
Dimension - Hole Size inch	0.56



Dimension - Hole Size mm	14 mm
Dimension - L Length Overall mm	73 mm
Dimension - Length Overall inch	2.88 in
Dimension - N inch	0.63 in
Dimension - Outside Diameter inch	0.42 in
Dimension - Pad Width inch	0.83 in
Dimension - Strip Length inch	1-5/16
Dimension - Stud Size fraction	1/2
Dimension - Stud Size inch	1/2
Dimension - Z (inch)	0.64 in
Physical Attribute - Tongue Angle	Straight

Electrical Ratings

Voltage - Maximum	35000
Voltage Rating	35 kV

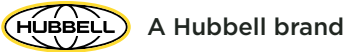
Conductor Related

Conductor - Copper Str Navy Size	60 (37) Navy
Conductor - Copper Str Navy Size Range	60 (37) Navy
Conductor - Copper Str Size	2 AWG
Conductor - Copper Str Size Range	2 AWG
Conductor - Material	COPPER
Conductor Size	2 AWG
Conductor Type	CODE

Certifications And Compliance

Buy America(n) Qualified	TAA Compliant (All status valid till December 2024)
Certification - CSA Approved	Yes
Certification - ETL	No
Certification - UL Recognized	No
Certification - cULus	No
Industry Standard(s)	UL 486A-486B
Standards - RoHS Compliance Status	CM

UL Listed	Yes	Catalogs - BURNDY Master Catalog - Full Line BURNDY Catalog
		Customer Notices - Prop 65 Notice
Logistics		Installation Manuals - Copper Code Long Terminals Tooling and Installation Instructions
Carton Quantity	25	Installation Manuals - Medium & Large HYDENT Copper & Aluminum Terminal Crimp Instructions with 750 Series 12-Ton Tool
Minimum Pack Quantity	1	Interactive Catalog - BURNDY Full-Line Digital Catalog
Product Assets		Sales Drawings - SD..079849-03
3D Models - YA2CN_MODEL-PDF		Specifications - YA2CN
3D Models - YA2CN_MODEL-STEP		Video - HYDENT Compression Terminal Overview Video
3D Models - YA2CN_MODEL-IGES		
Catalogs - BURNDY Master Catalog - Section C - Compression Connections		



DRAWING NO. SD079849		7			6		5		4		3		2		1																																		
CATALOG NUMBER 11 13	STRANDED COPPER CONDUCTOR ACCOMMODATED			BOLT SIZE	METRIC BOLT SIZE	DIMENSIONS							REV F 2023-06-30 01:00:00 EDT		DATE 2023-06-30 01:00:00 EDT		DESCRIPTION UPDATED AS PER MARKUP		ECO 230627031427		BY YR		C.H.K. RA																										
	CODE (AWG)	NAVY	METRIC SIZE (CLASS 2)			B	C	K DIA.	L	N	O.D.	T REF.	Z MIN.																																				
YA2CNT10	#2 AWG	60	-----	#10	M5	1.25 [32]	.50 [13]	.21 [5]	2.10 [53]	.25 [6]	.42 [11]	.11 [3]	.27 [7]	CONNECTOR SIZE TOLERANCES <table><tr><th>CONNECTOR SIZE</th><th>B</th><th>C</th><th>K DIA.</th><th>L</th><th>N</th><th>O.D.</th></tr><tr><td>-8C THRU -25</td><td>±.06</td><td>±.04</td><td>±.02</td><td>±.09</td><td>±.03</td><td>±.01</td></tr><tr><td>-26 THRU -34</td><td>±.08</td><td>+.04 -.06</td><td>±.02</td><td>±.12</td><td>±.03</td><td>±.01</td></tr><tr><td>-35 AND UP</td><td>±.09</td><td>±.06</td><td>±.02</td><td>±.15</td><td>±.06</td><td>±.01</td></tr></table> TOLERANCE BLOCK								CONNECTOR SIZE	B	C	K DIA.	L	N	O.D.	-8C THRU -25	±.06	±.04	±.02	±.09	±.03	±.01	-26 THRU -34	±.08	+.04 -.06	±.02	±.12	±.03	±.01	-35 AND UP	±.09	±.06	±.02	±.15	±.06	±.01
CONNECTOR SIZE				B	C	K DIA.	L	N	O.D.																																								
-8C THRU -25				±.06	±.04	±.02	±.09	±.03	±.01																																								
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YA2CTC10				#10	M5	1.25 [32]	.60 [15]	.21 [5]	2.10 [53]	.25 [6]	.42 [11]	.11 [3]	.27 [7]																																				
YA2CTC14	1/4	M6	1.25 [32]	.60 [15]	.27 [7]	2.23 [57]	.31 [8]	.42 [11]	.11 [3]	.33 [8]																																							
YA2CTC38	3/8	M10	1.25 [32]	.60 [15]	.41 [10]	2.41 [61]	.41 [10]	.42 [11]	.11 [3]	.42 [11]																																							
YA2C	5/16	M8	1.25 [32]	.60 [15]	.33 [8]	2.29 [58]	.34 [9]	.42 [11]	.11 [3]	.36 [9]																																							
YA2CN	1/2	M12	1.25 [32]	.83 [21]	.56 [14]	2.88 [73]	.63 [16]	.42 [11]	.12 [3]	.64 [16]																																							
YA1CTC10	#1 AWG	75	-----	#10	M5	1.38 [35]	.68 [17]	.21 [5]	2.27 [58]	.25 [6]	.46 [12]	.10 [3]	.27 [7]																																				
YA1CTC14				1/4	M6	.68 [17]	.27 [7]	2.39 [61]	.31 [8]	.46 [12]	.10 [3]	.32 [8]																																					
YA1CTC38				3/8	M10	.68 [17]	.41 [10]	2.58 [66]	.41 [10]	.46 [12]	.10 [3]	.42 [11]																																					
YA1C				5/16	M8	.68 [17]	.33 [8]	2.45 [62]	.34 [9]	.46 [12]	.10 [3]	.36 [9]																																					
YA1CN				1/2	M12	.83 [21]	.56 [14]	3.06 [78]	.63 [16]	.46 [12]	.12 [13]	.64 [16]																																					
YA25TC10	1/0 AWG	100	-----	#10	M5	1.38 [35]	.75 [19]	.21 [5]	2.30 [58]	.25 [6]	.51 [13]	.12 [13]	.27 [7]																																				
YA25				5/16	M8		.75 [19]	.33 [8]	2.48 [63]	.34 [9]	.36 [9]																																						
YA25TC38				3/8	M10		.75 [19]	.40 [10]	2.61 [66]	.41 [10]	.42 [11]																																						
YA25N				1/2	M12		.83 [21]	.56 [14]	3.05 [77]	.63 [16]	.51 [13]	.11 [3]	.64 [16]																																				

INSTALLATION TOOLING (# CRIMPS)																		
CATALOG NO.	COLOR CODE	DIE INFORMATION		MECHANICAL				HYDRAULIC						DIELESS (# CRIMPS)		WIRE STRIP LENGTH		
		DIE INDEX	TYPE	Y1MRTC 6	OUR840	MD6 MD7	MD6--R2 MD7-34R	PATMD6 PAT600 Y500CT	Y34A Y34B Y34BH 8 5	Y35,Y39 Y750, PAT750 5	Y46, PAT46 4 5	Y45 3 5	Y48B	Y60BHU	MECHANICAL		HYDRAULIC	
YA2CNT10 YA2CTC10 YA2CTC14 YA2CTC38 YA2C YA2CN	BROWN	10	BROWN DIE SET	BROWN (4)	X2CRT(2)	W2CRT(2) W2CVT(2)	W2CRT(2) W2CVT(2)	W2CRT(2) W2CVT(2)	-----	U2CRT(2)	U2CRT(2)	U2CRT(2)	-----	-----	MY29-3(2) MY29-11(2) MRC840(2)	PAT81KFT(2) Y81KFT(2) PAT4PC834(2) Y4PC834(2) PAT644(1) Y644(1)	1-5/16"	
YA1CTC10 YA1CTC14 YA1CTC38 YA1C YA1CN	GREEN	11 375	GREEN DIE SET	GREEN (4)	X1CRT-1 (2)	W1CRT-1(2) W1CVT(2)	W1CRT-1(2) W1CVT(2)	W1CRT-1(2) W1CVT(2)	-----	U1CRT-1(2) U4CABT(2)	U1CRT-1(2) U4CABT(2)	U1CRT-1(2) U4CABT(2)	-----	-----		MY29-3(2) MY29-11(2) MRC840(4)	PAT81KFT(2) Y81KFT(2) PAT4PC834(2) Y4PC834(2) PAT644(1) Y644(1)	1-7/16"
YA25TC10 YA25 YA25TC38 YA25N	PINK	12 348	PINK DIE SET	-----	X25RT(4)	W25RT(4) W25VT(4)	W25RT(4) W25VT(4)	W25RT(4) W25VT(4)	A25R(2)	U25RT(2) U2CABT(2)	U25RT(2) U2CABT(2)	U25RT(2) U2CABT(2)	-----	-----			MY29-3(2) MY29-11(2) MRC840(4)	PAT81KFT(2) Y81KFT(2) PAT4PC834(2) Y4PC834(2) PAT644(1) Y644(1)
			NEST INDENTOR	-----	-----	-----	-----	-----	B25D(1) A25D(1) Y34PR	U25D-1(1) Y34PR	U25D-1(1) Y34PR	U25D-1(1) Y34PR	-----	-----				

NOTES:

1. MATERIAL : COPPER TUBING.

2. FINISH: ELECTRO-TIN PLATED.

3. CATALOG # PT6515 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y45 SERIES TOOLS.

4. CATALOG # PUADP-1 ADAPTOR IS REQUIRED TO USE "U" DIES IN Y46 SERIES TOOLS.

5. Y35P3 INDENTOR ADAPTOR REQUIRED FOR Y34PR INDENTOR.

6. PERMANENT DIE IN TOOLING.

7. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS ROUNDED OFF TO THE NEAREST MILLIMETER, UNLESS OTHERWISE NOTED, AND ARE FOR REFERENCE ONLY.

8. FOR USE BY CUSTOMERS THAT HAVE THIS HYPRESS™. NO NEW Y34A HYPRESSES™ ARE BEING PROCESSED. Y34A USES A--D NEST DIES ONLY.

9. CONNECTORS ARE UL LISTED; UNDRILLED VERSIONS ARE NOT UL LISTED.

10. CONNECTORS ARE CSA CERTIFIED; UNDRILLED VERSIONS ARE NOT CSA CERTIFIED.

11. FOR UNDRILLED VERSIONS ADD SUFFIX"U" TO END OF CATALOG NUMBER. FOR UNDRILLED VERSIONS, USE D MIN. = N MAX. + Z MIN.

12. "X", "W-RT", "W-VT", "U", & "L" DIE SETS ARE COLOR CODED. "A", "B", AND "C" DIES ARE NOT COLOR CODED. NESTS AND INDENTOR TYPE ARE NOT COLOR CODED.

K DIA.

9

C

10

N

11

D MIN.

11

L

11

Z MIN.

11

T REF.

11

B

11

O.D.

11

TYPICAL STAMPING

USE SUFFIX "NK" FOR NICKEL PLATING.

REFERENCE: SE209241 (YA-2, YA-4)

TO ORDER BURNDY@PRODUCTS CALL
UNITED STATES:
1-800-346-4175 (LONDONDERRY, NH)
CANADA:
1-800-361-6975 (QUEBEC)
1-800-387-6487 (ALL OTHER PROVINCES)
FOR PRODUCT INFO: <http://www.burndy.com>

HYLUG™

ITEM NO: N/A

CAT. NO: YA-, YA-N & YA -TC- (TABLE)

DRAWN BY: C RACANO 6/15/77

CHECKER: CAR 6/15/77

DSN APPVL: LB 6/24/77

MFG APPVL: --

QC APPVL: C ACKERMAN 9/9/94

MKT APPVL: T NELSON 9/7/94

PROD FAM: --

PROJECT #: FPN1702013

DOCUMENT TYPE: Sales

REL LEVEL: Released

SCALE: NTS

DRAWING NO
SD079849

REV
F

SHEET 3 OF 10