

Universal Closures UCN

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Features and Benefits

All plastic components for OSP applications

Corrosion-free, all plastic components

One-piece cover design

Simple assembly, eliminates “blind seam” when flash testing

All components kit-packaged in one carton

Integral end cap strain-relief, eliminates guesswork, assures reliability

Corning offers a full line of UCN copper splice closures engineered to provide excellent environmental protection of twisted-pair splices. These durable closures are suitable for either “butt” or “through” cable entry configurations. UCN closures can be used in underground, aerial or direct-buried splice applications and can accommodate up to 6000 pairs, depending on wire gauge and splicing method.



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Specifications

Universal Closures					
	Inside Diameter	Outside Diameter	Maximum Sheath Opening Inside Notch	Distance Between Inside of End Caps Outside Notch	Overall Length
UCN5-20	11.60 cm (4.57 in)	15.01 cm (5.91 in)	50.80 cm (20.00 in)	58.19 cm (22.91 in)	76.81 cm (30.24 in)
UCN6-10	16.61 cm (6.54 in)	19.81 cm (7.80 in)	27.94 cm (11.00 in)	35.33 cm (13.91 in)	52.32 cm (20.60 in)
UCN6-20	16.61 cm (6.54 in)	19.81 cm (7.80 in)	50.80 cm (20.00 in)	58.19 cm (22.91 in)	76.84 cm (30.25 in)
UCN6-30	16.61 cm (6.54 in)	19.81 cm (7.80 in)	76.20 cm (30.00 in)	83.31 cm (32.80 in)	102.01 cm (40.16 in)
UCN8-20	20.59 cm (8.11 in)	24.41 cm (9.61 in)	50.80 cm (20.00 in)	58.19 cm (22.91 in)	76.84 cm (30.25 in)
UCN8-24	20.59 cm (8.11 in)	24.41 cm (9.61 in)	60.96 cm (24.00 in)	69.34 cm (27.30 in)	88.14 cm (34.70 in)
UCN8-30	20.59 cm (8.11 in)	24.41 cm (9.61 in)	76.20 cm (30.00 in)	83.31 cm (32.80 in)	102.01 cm (40.16 in)
UCN10-20	26.62 cm (10.48 in)	30.61 cm (12.05 in)	50.80 cm (20.00 in)	58.19 cm (22.91 in)	76.84 cm (30.25 in)
UCN10-30	26.62 cm (10.48 in)	30.61 cm (12.05 in)	76.20 cm (30.00 in)	83.31 cm (32.80 in)	102.01 cm (40.16 in)
UCN10-40	26.62 cm (10.48 in)	30.61 cm (12.05 in)	101.60 cm (40.00 in)	108.51 cm (42.72 in)	127.41 cm (50.16 in)

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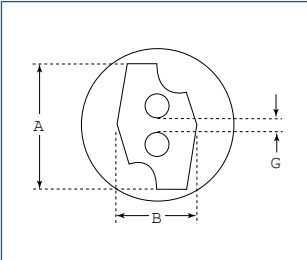
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Part Number	End Cap Type	End Cap Dimensions			Maximum Cable Entry Combinations			
		A mm (in)	B mm (in)	G mm (in)	One ² mm (in)	Two ³ mm (in)	Three ¹ mm (in)	Four ³ mm (in)
Two-Piece End Cap Capabilities								
UCN5-EC2	UCN5	46 (1.8)	53 (2.1)	10 (0.4)	43 (1.7)	38 (1.5)	—	—
UCN6-EC2	UCN6	64 (2.5)	105 (4.2)	10 (0.4)	61 (2.4)	90 (3.5)	77 (3.0)	64 (2.5)
UCN8-EC2	UCN8	100 (3.9)	145 (5.7)	10 (0.4)	97 (3.8)	129 (5.1)	117 (4.6)	104 (4.1)
UCN10-EC2	UCN10	104 (4.1)	205 (8.1)	10 (0.4)	101 (4.0)	190 (7.4)	177 (7.0)	164 (6.5)

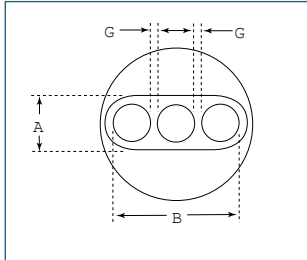
¹ These dimensions indicate the maximum combined cable diameters that can be accommodated in each two-piece end cap.

² Maximum cable diameter possible in center of end cap.

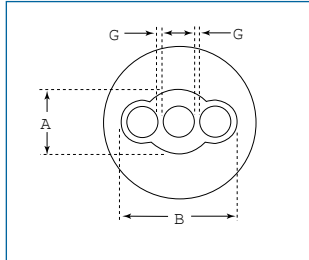
³ Always allow 10 mm (0.4 in) space between cables. This space is allowed for in the information above.



UCN5: 5-in Two-Piece End Cap | Drawing ZA-1288



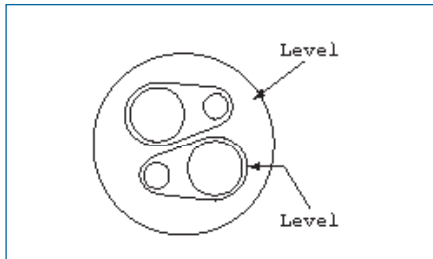
UCN6/10: 6- and 10-in Two-Piece End Cap | Drawing ZA-1288



UCN8: 8-in Two-Piece End Cap | Drawing ZA-1288

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Part Number	End Cap Type	Maximum Cable Entry Combinations ¹				Cutting Level II* ²			
		Cutting Level I* One ² mm (in)	Two ³ mm (in)	Three ³ mm (in)	Four ³ mm (in)	One ² mm (in)	Two ³ mm (in)	Three ³ mm (in)	Four ³ mm (in)
Three-Piece End Cap Capabilities									
UCNT8-EC3	UCNT-8	66 (2.6)	95 (3.7)	85 (3.4)	75 (2.9)	52 (2.0)	81 (3.2)	82 (3.2)	75 (2.9)
UCNT10-EC3	UCNT-10	97 (3.8)	128 (5.0)	130 (5.1)	120 (4.7)	77 (3.0)	106 (4.2)	117 (4.6)	120 (4.7)
¹These dimensions indicate the maximum combined cable diameters that can be accommodated in each three-piece end cap. ²Maximum cable diameter possible per cutting level. ³Always allow 10 mm (0.4 in) space between cables. This space is allowed for in the information above. * Maximum individual cable diameter differs in each of the two cutting levels in three-piece end caps.  UCNT8/UCNT10: 8-in and 10-in Three-Piece End Cap Drawing ZA-1289									

UCN Part Number	Modular Splice 25 Pair In-Line						Single Splice (Tel-Splice or Equivalent Connector) Modified Fold Back			PICABOND Connector In-Line		
	28-26	24	22	Fold Back 28-26	24	22	28-26	24	22	28-26	24	22
UCN Selection Guide (Capacity in Pairs and AWG)												
UCN5-20	700	600	300	400	325	275	600	500	300	700	600	300
UCN6-10	800	800	600	600	500	400	700	600	600	800	800	600
UCN6-20	1200	1200	600	900	800	600	1200	1000	600	1200	1200	600
UCN6-30	1800	1500	900	1200	1000	800	1500	1500	900	1800	1800	900
UCN8-20	2400	2100	1200	1500	1200	1000	2100	1800	1200	2400	2100	1200
UCN8-24	2400	2100	1200	1500	1200	1000	2400	2100	1500	2600	2300	1500
UCN8-30	3300	2800	2000	2400	1800	1200	3000	2400	1800	3300	2800	2000
UCN10-20	3200	2700	1800	2100	1800	1200	3000	2400	1500	3200	2700	1800
UCN10-30	4800	4000	2700	3000	2300	2000	4400	3000	1800	4800	4000	2700
UCN10-40	6000	5200	3200	4200	3300	2700	5600	4000	2000	6000	5200	3200

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Part Number	Grams
Closure Encapsulant Capacities*	
UCN5-20	1617
UCN6-10	1910
UCN6-20	3324
UCN6-30	5234
UCN8-20	5122
UCN8-24	6107
UCN8-30	7335
UCN10-20	8536
UCN10-30	12223
UCN10-40	15702

**Encapsulant Capacities: Reflects the amount of encapsulant required if the splice were to occupy 75% of the internal volume of the UCN. Smaller splices will require more encapsulant. Large splices will require less encapsulant.*

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Accessories

The following should be ordered according to package size.

Ordering Information

End Cap Gasket

Part Number	Closure Type	Units per Delivery
UCN5-KT-SRC	UCN 5	10/1
UCN6-KT-SRC	UCN 6	10/1
UCN8-KT-SRC	UCN 8	10/1
UCN10-KT-SRC	UCN 10	10/1

Cover Gasket

Part Number	Closure Type	Units per Delivery
UCN-KT-SL10	UCN 6-10	5/1
UCN-KT-SL20	UCN 5/6/8/10-20	5/1
UCN-KT-SL24	UCN 8-24	5/1
UCN-KT-SL30	UCN 6/8/10-30	5/1
UCN-KT-SL40	UCN 10-40	5/1

2-Piece End Cap with Gasket

Part Number	Closure Type	Units per Delivery
UCN5-EC2	UCN 5	1/1
UCN6-EC2	UCN 6	1/1
UCN8-EC2	UCN 8	1/1
UCN10-EC2	UCN 10	1/1

3-Piece End Cap with Gasket

Part Number	Closure Type	Units per Delivery
UCNT8-EC3	UCN 8	1/1
UCNT10-EC3	UCN 10	1/1

Clamping Bars

Part Number	Closure Type	Units per Delivery
UCN6-10-CB	UCN 6-10	1/1
UCN6-20-CB	UCN 5/6-20	1/1
UCN8-20-CB	UCN 8/10-20	1/1

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Clamping Bars

Part Number	Closure Type	Units per Delivery
UCN8-24-CB	UCN 8-24	1/1
UCN8-30-CB	UCN 6/8/10-30	1/1
UCN10-40-CB	UCN 10-40	1/1

Other Accessories

Part Number	Product Description	Units per Delivery	
UCN-INST-BL	Installation Block	1/1	
UCN-KT-CT	Cleaning Cloth	100/1	
UCN-KT-SP	Universal Closure Accessory, sealing paste	10/1	
UCN-KT-TP	Universal Closure Accessory, sealing tape	5/1	
UCN-KT-LB	Silicone Lubricant for dome seal (10/pack)	10/1	
UCN-KT-STP	Pincers	1/1	
UCN-CT-SB	Spare Blade	1/1	
UCN-KT-IT-TH	T-Handle Tool	1/1	
UCN-AHD	Aerial Hanging Device	1/1	
UCN-KT-SCS	Solid Ground Screw Assembly	1/1	
UCN-KT-VGS	Vented Ground Screw Assembly	100/1	
UCCN-KT-BT20	Boring Tool, 20 mm	1/1	
UCN-CTSB	Cutting Tool Support Bracket	1/1	
UCN-KT-CASE	Tool Case	1/1	

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