

CP

600V Cable Protectors

SPECIAL PURPOSE



Mersen CP Cable Protectors are special purpose limiters which are crimped or bolted to cables or terminals to clear and isolate faults quickly, increasing the reliability of service entrance and distribution runs. CP Cable Protectors have a 200,000A interrupting rating, yet will carry low cable overloads which are handled by standard protective devices. Cable protectors are rated in terms of cable size and material (Al or Cu). Heavier duty CPH cable protectors are available on special order. Heat shrinkable (HS) tubing can be specified for field installation. TI blown fuse trigger indicators may be available upon request. Refer to the application information section for more information.

CATALOG NUMBERS

Description			Catalog Number for Cable Type	
Type	Termination	Cable Size	Copper	Aluminum
1	Cable to Cable	2	CP2C1	-
		1/0	CP1/OC1	-
		2/0	CP2/OC1	-
		4/0	CP4/OC1	CP4/OA1
		250kcmil	CP250C1	CP250A1
		350kcmil	CP350C1	CP350A1
		400kcmil	CP400C1	-
		500kcmil	CP500C1	CP500A1
		600kcmil	CP600C1	CP600A1
		750kcmil	CP750C1	CP750A1
3	Cable to Offset Bus	1000kcmil	CP1000C1	-
		2	CP2C3	-
		1/0	CP1/OC3	-
		2/0	CP2/OC3	-
		4/0	CP4/OC3	CP4/OA3
		250kcmil	CP250C3	CP250A3
		350kcmil	CP350C3	CP350A3
		400kcmil	CP400C3	-
		500kcmil	CP500C3	CP500A3
		600kcmil	CP600C3	CP600A3
5	Straight Bus to Offset Bus	750kcmil	CP750C3	CP750A3
		1000kcmil	CP1000C3	-
		2/0	CP2/OC5	CP2/OC5
		4/0	CP4/OC5	CP4/OC5
		250kcmil	CP250C5	CP250C5
		350kcmil	CP350C5	CP350C5
		500kcmil	CP500C5	CP500C5
		600kcmil	CP600C5	CP600C5
		750kcmil	CP750C5	CP750C5
6	Mole to Cable	4/0	CP4/OC6	CP4/OA6
		250kcmil	CP250C6	CP250A6
		350kcmil	CP350C6	CP350A6
		400kcmil	CP400C6	-
		500kcmil	CP500C6	CP500A6
8	Mole to Offset Bus	750kcmil	CP750C6	CP750A6
		4/0	CP4/OC8	CP4/OC8
		250kcmil	CP250C8	CP250C8
		350kcmil	CP350C8	CP350C8
		500kcmil	CP500C8	CP500C8
		750kcmil	CP750C8	CP750C8

*Please consult factory for special terminations.

RATINGS

- **Sizes:** #2 to 1000kcmil aluminum or copper
- **Volts:** 600VAC
- **IR:** 200kA I.R. AC

FEATURES/BENEFITS

- Fiberglass bodies for dimensional stability in harsh environments
- Catalog number stamped into terminal for permanent identification
- Crimp terminals for aluminum cable include oxide inhibitor
- Molded rubber boots or heat shrinkable tubing available for insulation and protection
- Current limiting device
- Permitted by National Electrical Code®

APPLICATIONS

- UL listed to File E305297

APPROVALS/STANDARDS

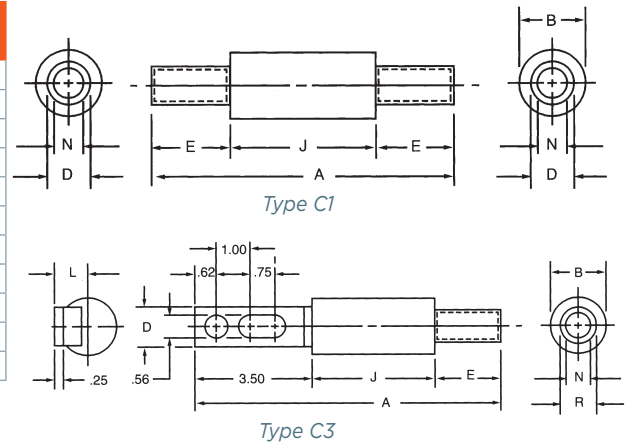
- UL listed to File E305297



Catalog Numbering System						
		CP	500	C	3	- TI
Standard Duty	CP					
Heavy Duty	CPH					
Conductor Size						
Cable Material: Copper or Aluminum	C	A				
Termination						
Heat Shrink Trigger Indicator	HS	TI				

TYPE C1 - DIMENSIONS (CABLE TO CABLE - COPPER)

Catalog No.	Cable* Size	Dimensions - Inches (mm)					
		A	B	D	E	J	N
CP2C1	#2	.712 [180]	1.44 [37]	.42 [11]	1.75 [44]	3.62 [92]	.31 [7.9]
CP1/OC1	1/0	.712 [180]	1.44 [37]	.52 [13]	1.75 [44]	3.62 [92]	.39 [9.9]
CP2/OC1	2/0	.712 [180]	1.44 [37]	.56 [14]	1.75 [44]	3.62 [92]	.44 [11]
CP4/OC1	4/0	.712 [180]	1.44 [37]	.68 [17]	1.75 [44]	3.62 [92]	.55 [14]
CP250C1	250kcmil	.738 [188]	1.44 [37]	.75 [19]	1.88 [48]	3.62 [92]	.62 [16]
CP350C1	350kcmil	.762 [194]	1.62 [41]	.88 [22]	2.00 [51]	3.62 [92]	.71 [18]
CP400C1	400kcmil	.762 [194]	1.62 [41]	.94 [24]	2.00 [51]	3.62 [92]	.75 [19]
CP500C1	500kcmil	.938 [238]	1.88 [48]	1.05 [27]	2.88 [73]	3.62 [92]	.85 [22]
CP600C1	600kcmil	.951 [242]	2.50 [64]	1.07 [27]	2.88 [73]	3.75 [95]	.94 [24]
CP750C1	750kcmil	.951 [242]	2.50 [64]	1.32 [34]	2.88 [73]	3.75 [95]	1.06 [27]
CP1000C1	1000kcmil	1.00 [254]	3.00 [76]	1.50 [38]	3.13 [79]	3.75 [95]	1.16 [29]

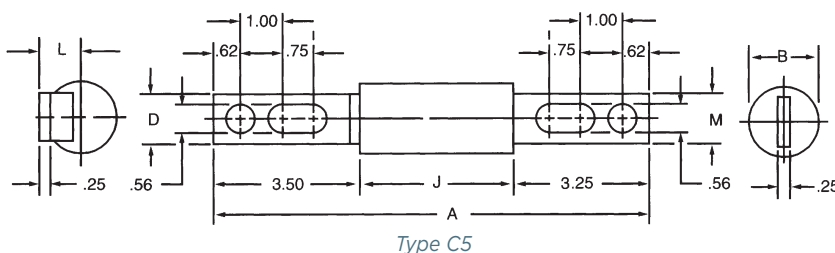


TYPE C3 - DIMENSIONS (CABLE TO OFFSET BUS - COPPER)

Catalog No.	Cable* Size	Dimensions - Inches (mm)								
		A	B	D	E	I	J	L	N	R
CP2C3	#2	8.87 [225]	1.44 [37]	1.12 [28]	1.75 [44]	3.50 [88.9]	3.62 [92]	.96 [24]	.31 [7.9]	.42 [11]
CP1/OC3	1/0	8.87 [225]	1.44 [37]	1.12 [28]	1.75 [44]	3.50 [88.9]	3.62 [92]	.96 [24]	.39 [9.9]	.52 [13]
CP2/OC3	2/0	8.87 [225]	1.44 [37]	1.12 [28]	1.75 [44]	3.50 [88.9]	3.62 [92]	.96 [24]	.44 [11]	.56 [14]
CP4/OC3	4/0	8.87 [225]	1.44 [37]	1.12 [28]	1.75 [44]	3.50 [88.9]	3.62 [92]	.96 [24]	.55 [14]	.68 [17]
CP250C3	250kcmil	9.00 [229]	1.44 [37]	1.12 [28]	1.88 [48]	3.50 [88.9]	3.62 [92]	.96 [24]	.62 [16]	.75 [19]
CP350C3	350kcmil	9.12 [232]	1.62 [41]	1.12 [28]	2.00 [51]	3.50 [88.9]	3.62 [92]	.96 [24]	.71 [18]	.88 [22]
CP400C3	400kcmil	9.12 [232]	1.62 [41]	1.12 [28]	2.00 [51]	3.50 [88.9]	3.62 [92]	.96 [24]	.75 [19]	.88 [22]
CP500C3	500kcmil	10.00 [254]	1.88 [48]	1.62 [41]	2.88 [73]	3.50 [88.9]	3.62 [92]	1.19 [30]	.85 [22]	1.05 [27]
CP600C3	600kcmil	10.13 [257]	2.50 [64]	2.00 [51]	2.88 [73]	3.50 [88.9]	3.75 [95]	1.31 [33]	.94 [24]	1.07 [27]
CP750C3	750kcmil	10.13 [257]	2.50 [64]	2.00 [51]	2.88 [73]	3.50 [88.9]	3.75 [95]	1.31 [33]	1.06 [27]	1.32 [34]
CP1000C3	1000kcmil	10.63 [270]	3.00 [76]	2.00 [51]	3.13 [79]	3.75 [95]	3.75 [95]	1.56 [40]	1.16 [29]	1.50 [38]

TYPE C5 - DIMENSIONS (STRAIGHT BUS TO OFFSET BUS - COPPER)

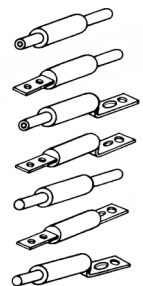
Catalog No.	Cable Size	Dimensions - Inches (mm)					
		A	B	D	J	L	M
CP4/OC5	4/0	10.37 [263]	1.44 [37]	1.12 [28]	3.62 [92]	.96 [24]	1.12 [28]
CP250C5	250kcmil	10.37 [263]	1.44 [37]	1.12 [28]	3.62 [92]	.96 [24]	1.12 [28]
CP350C5	350kcmil	10.37 [263]	1.62 [41]	1.12 [28]	3.62 [92]	.96 [24]	1.12 [28]
CP500C5	500kcmil	10.37 [263]	1.88 [48]	1.62 [41]	3.62 [92]	1.19 [30]	1.50 [38]
CP600C5	600kcmil	10.50 [267]	2.50 [64]	2.00 [51]	3.75 [95]	1.31 [33]	2.00 [51]
CP750C5	750kcmil	10.50 [267]	2.50 [64]	2.00 [51]	3.75 [95]	1.31 [33]	2.00 [51]



* kcmil = MCM

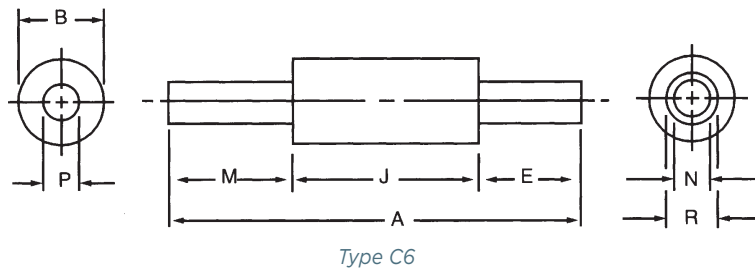
CABLE TYPE

- TYPE 1—Cable to cable
- TYPE 2—Bus to cable
- TYPE 3—Cable to offset bus
- TYPE 5—Bus to offset bus
- TYPE 6—Mole to cable
- TYPE 7—Bus to bus
- TYPE 8—Mole to offset bus



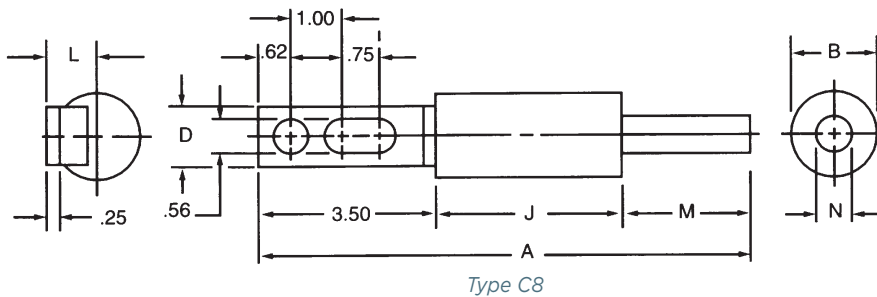
TYPE C6 - DIMENSIONS (MOLE TO CABLE - COPPER)

Catalog No.	Cable* Size	Dimensions - Inches (mm)							
		A	B	E	J	M	N	P	R
CP4/OC6	4/0	7.87 [200]	1.44 [37]	1.75 [44]	3.62 [92]	2.50 [64]	.55 [14]	.52 [13]	.68 [17]
CP250C6	250kcmil	8.00 [203]	1.44 [37]	1.88 [48]	3.62 [92]	2.50 [64]	.62 [16]	.58 [14]	.75 [19]
CP350C6	350kcmil	8.12 [206]	1.62 [41]	2.00 [51]	3.62 [92]	2.50 [64]	.71 [18]	.68 [17]	.88 [22]
CP500C6	500kcmil	9.38 [238]	1.88 [48]	2.88 [73]	3.62 [92]	2.88 [73]	.85 [22]	.81 [21]	1.05 [27]
CP750C6	750kcmil	9.51 [427]	2.50 [64]	2.88 [73]	3.75 [95]	2.88 [73]	1.06 [27]	1.00 [25]	1.32 [34]



TYPE C8 - DIMENSIONS (MOLE TO OFFSET BUS - COPPER)

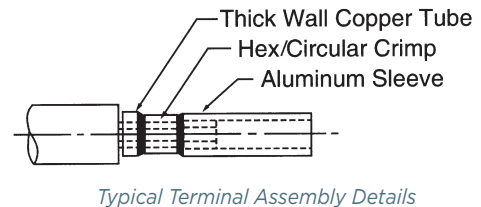
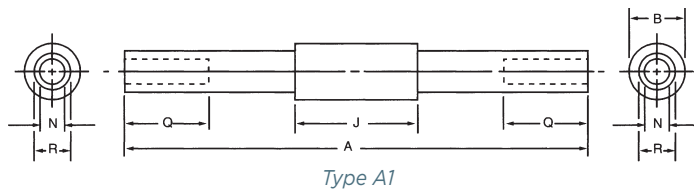
Catalog No.	Cable* Size	Dimensions - Inches (mm)						
		A	B	D	J	L	M	N
CP4/OC8	4/0	9.62 [244]	1.44 [37]	1.12 [28]	3.62 [92]	.96 [24]	2.50 [64]	.52 [14]
CP250C8	250kcmil	9.62 [244]	1.44 [37]	1.12 [28]	3.62 [92]	.96 [24]	2.50 [64]	.58 [13]
CP350C8	350kcmil	9.62 [244]	1.62 [41]	1.12 [28]	3.62 [92]	.96 [24]	2.50 [64]	.68 [17]
CP500C8	500kcmil	10.00 [254]	1.88 [48]	1.62 [41]	3.62 [92]	1.19 [30]	2.88 [73]	.81 [21]
CP750C8	750kcmil	10.13 [257]	2.50 [64]	2.00 [51]	3.75 [95]	1.31 [33]	2.88 [73]	1.00 [25]



* kcmil = MCM

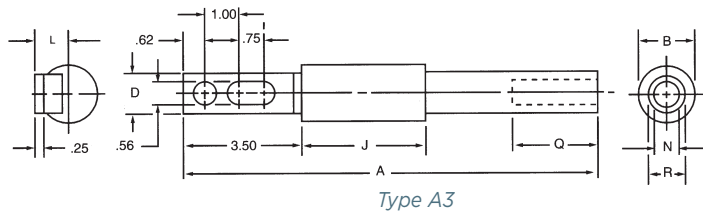
TYPE A1 - DIMENSIONS (CABLE TO CABLE - ALUMINUM)

Catalog Number	Cable* Size	Dimensions - Inches (mm)		J	N	Q	R
		A	B				
CP4/OA1	4/0	13.88 [353]	1.44 [37]	3.62 [92]	.55 [14]	2.50 [64]	.85 [22]
CP250A1	250kcmil	13.88 [353]	1.44 [37]	3.62 [92]	.59 [15]	2.50 [64]	.94 [24]
CP350A1	350kcmil	13.88 [353]	1.62 [41]	3.62 [92]	.71 [18]	2.50 [64]	1.13 [29]
CP500A1	500kcmil	15.38 [391]	1.88 [48]	3.62 [92]	.85 [22]	2.88 [73]	1.33 [34]
CP750A1	750kcmil	15.50 [394]	2.50 [64]	3.75 [95]	1.06 [27]	2.88 [73]	1.62 [41]



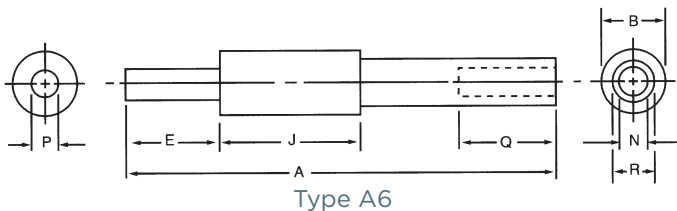
TYPE A3 - DIMENSIONS (CABLE TO OFFSET BUS - ALUMINUM)

Catalog Number	Cable* Size	Dimensions - Inches (mm)		J	L	N	Q	R
		A	B					
CP4/OA3	4/0	12.25 [311]	1.44 [37]	1.12 [28]	.96 [24]	.55 [14]	2.50 [64]	.85 [22]
CP250A3	250kcmil	12.25 [311]	1.44 [37]	1.12 [28]	.96 [24]	.59 [15]	2.50 [64]	.94 [24]
CP350A3	350kcmil	12.25 [311]	1.62 [41]	1.12 [28]	.96 [24]	.71 [18]	2.50 [64]	1.13 [29]
CP500A3	500kcmil	13.00 [330]	1.88 [48]	1.62 [41]	1.19 [30]	.85 [22]	2.88 [73]	1.33 [34]
CP750A3	750kcmil	13.12 [333]	2.50 [64]	2.00 [51]	1.31 [33]	1.06 [27]	2.88 [73]	1.62 [41]



TYPE A6 - DIMENSIONS (MOLE TO CABLE - ALUMINUM)

Catalog Number	Cable* Size	Dimensions - Inches (mm)		J	N	P	Q	R
		A	B					
CP4/OA6	4/0	11.25 [286]	1.44 [37]	2.50 [64]	.55 [14]	.52 [13]	2.50 [64]	.85 [22]
CP250A6	250kcmil	11.25 [286]	1.44 [37]	2.50 [64]	.59 [15]	.58 [14]	2.50 [64]	.94 [24]
CP350A6	350kcmil	11.25 [286]	1.62 [41]	2.50 [64]	.71 [18]	.68 [17]	2.50 [64]	1.13 [29]
CP500A6	500kcmil	12.38 [314]	1.88 [48]	2.88 [73]	.85 [22]	.81 [21]	2.88 [73]	1.33 [34]
CP750A6	750kcmil	12.50 [318]	2.50 [64]	2.88 [73]	1.06 [27]	1.00 [25]	2.88 [73]	1.59 [41]



Type 5 - Use Copper
Cable Protectors Type C5

Type 8 - Use Copper Cable
Protectors Type C8

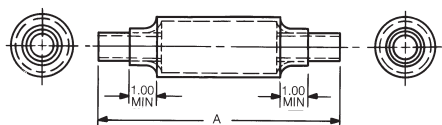
* kcmil = MCM

Note: Inside surface of sleeve ends is coated with oxide inhibitor and capped

COPPER CABLE PROTECTORS WITH HEAT SHRINKABLE TUBING*

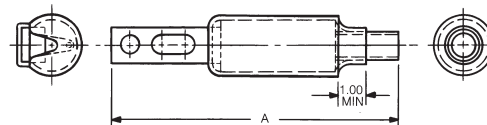
TYPE C1, COPPER CABLE - DIMENSIONS

Cable Size	A Inches	(mm)	Catalog No. Cable Protector With Heat Shrinkable Tubing
4/0	7.12	[180]	CP4/0C1-HS
250kcmil	7.38	[188]	CP250C1-HS
350kcmil	7.62	[194]	CP350C1-HS
500kcmil	9.38	[238]	CP500C1-HS
750kcmil	9.51	[242]	CP750C1-HS



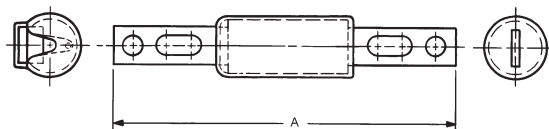
TYPE C3, COPPER CABLE - DIMENSIONS

Cable Size	A Inches	(mm)	Catalog No. Cable Protector With Heat Shrinkable Tubing
4/0	8.87	[225]	CP4/0C3-HS
250kcmil	9.00	[229]	CP250C3-HS
350kcmil	9.12	[232]	CP350C3-HS
500kcmil	10.00	[254]	CP500C3-HS
750kcmil	10.13	[257]	CP750C3-HS



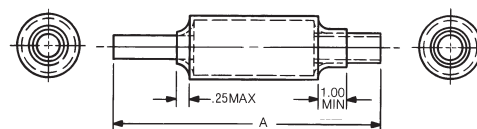
TYPE C5, COPPER CABLE - DIMENSIONS

Cable Size	A Inches	(mm)	Catalog No. Cable Protector With Heat Shrinkable Tubing
4/0	10.37	[263]	CP4/0C5-HS
250kcmil	10.37	[263]	CP250C5-HS
350kcmil	10.37	[263]	CP350C5-HS
500kcmil	10.37	[263]	CP500C5-HS
750kcmil	10.50	[267]	CP750C5-HS



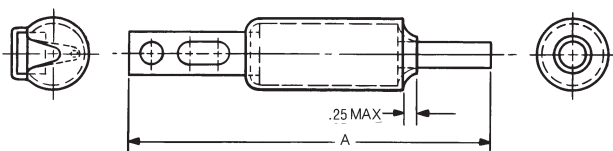
TYPE C6, COPPER CABLE - DIMENSIONS

Cable Size	A Inches	(mm)	Catalog No. Cable Protector With Heat Shrinkable Tubing
4/0	7.87	[200]	CP4/0C6-HS
250kcmil	8.00	[203]	CP250C6-HS
350kcmil	8.12	[206]	CP350C6-HS
500kcmil	9.38	[238]	CP500C6-HS
750kcmil	9.51	[242]	CP750C6-HS



TYPE C8, COPPER CABLE - DIMENSIONS

Cable Size	A Inches	(mm)	Catalog No. Cable Protector With Heat Shrinkable Tubing
4/0	9.62	[244]	CP4/0C8-HS
250kcmil	9.62	[244]	CP250C8-HS
350kcmil	9.62	[244]	CP350C8-HS
500kcmil	10.00	[254]	CP500C8-HS
750kcmil	10.13	[257]	CP750C8-HS



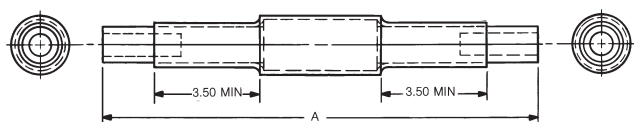
* Transparent heat shrinkable tubing is supplied separately with -HS Catalog No.
Maximum curing conditions: 5 seconds at 450 °F.

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ALUMINUM CABLE PROTECTORS WITH HEAT SHRINKABLE TUBING*

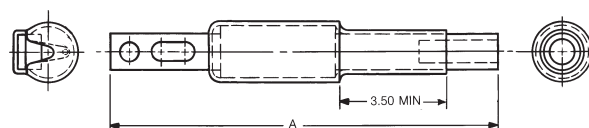
TYPE A1, ALUMINUM CABLE - DIMENSIONS

Cable Size	A Inches	(mm)	Catalog No. Cable Protector With Heat Shrinkable Tubing
4/0	13.88	[353]	CP4/0A1-HS
250kcmil	13.88	[353]	CP250A1-HS
350kcmil	13.88	[353]	CP350A1-HS
500kcmil	15.38	[391]	CP500A1-HS
750kcmil	15.50	[394]	CP750A1-HS



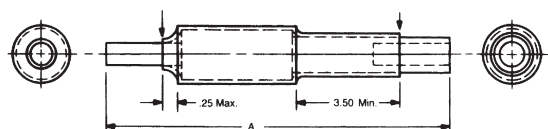
TYPE A3, ALUMINUM CABLE - DIMENSIONS

Cable Size	A Inches	(mm)	Catalog No. Cable Protector With Heat Shrinkable Tubing
250kcmil	12.25	[311]	CP250A3-HS
350kcmil	12.25	[311]	CP350A3-HS
4/0	12.25	[311]	CP4/0A3-HS
500kcmil	13.00	[330]	CP500A3-HS
750kcmil	13.12	[333]	CP750A3-HS



TYPE A6, ALUMINUM CABLE - DIMENSIONS

Cable Size	A Inches	(mm)	Catalog No. Cable Protector With Heat Shrinkable Tubing
4/0	11.25	[286]	CP4/0A6-HS
250kcmil	11.25	[286]	CP250A6-HS
350kcmil	11.25	[286]	CP350A6-HS
500kcmil	12.38	[314]	CP500A6-HS
750kcmil	12.50	[318]	CP750A6-HS



Type 5 - Use Copper Cable Protectors Type C5

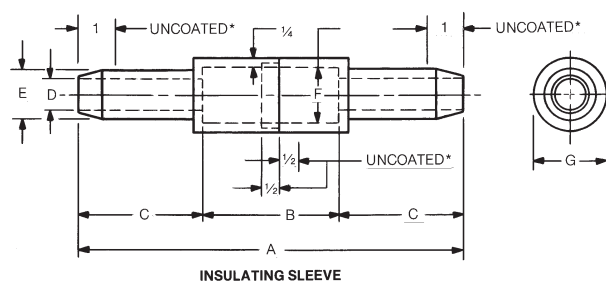
Type 8 - Use Copper Cable Protectors Type C8

* Transparent heat shrinkable tubing is supplied separately with -HS Catalog Numbers. Maximum curing conditions: 5 seconds at 450 °F.

MOLDED RUBBER INSULATING SLEEVES**

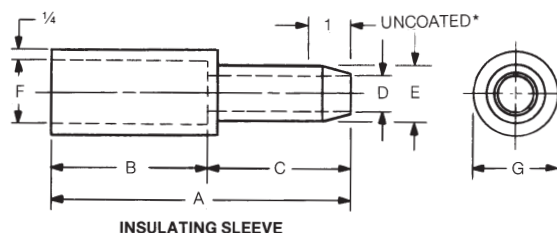
FOR TYPE C1 COPPER CABLE PROTECTORS - DIMENSIONS

Catalog No.	Cable Size	Dimensions - Inches (mm)						
		A	B	C	D	E	F	G
4/0CCR	4/0	10.44 [265]	3.69 [94]	3.38 [86]	.83 [21]	1.33 [33]	1.50 [38]	2.00 [51]
500CCR	500kcmil	14.19 [360]	3.69 [94]	5.25 [133]	1.31 [33]	1.81 [46]	1.94 [49]	2.44 [62]



FOR TYPE C3 COPPER CABLE PROTECTORS - DIMENSIONS

Catalog No.	Cable Size	Dimensions - Inches (mm)						
		A	B	C	D	E	F	G
4/0CBR	4/0	7.06 [179]	3.69 [94]	3.38 [86]	.83 [21]	1.33 [33]	1.50 [38]	2.00 [51]
500CBR	500kcmil	8.94 [227]	3.69 [94]	5.25 [133]	1.31 [33]	1.81 [46]	1.94 [49]	2.44 [62]



** Molded rubber insulating sleeves are ordered by their own catalog numbers, and not as suffixes to the cable protector catalog numbers. Neoprene coated except as noted.

Mersen Cable Protectors have standard commercial splicing sleeve dimensions. Any crimping tool suitable for standard splicing sleeves, can be used. Follow crimping tool manufacturers instructions. Some crimping tool examples are shown below. It is recommended to use at least 2 crimps.

CABLE PROTECTOR SPLICING SLEEVE DIMENSIONS

Cable Size (MCM or kcmil)	Copper ID	OD	Aluminum ID	OD
#2	0.31 [7.87]	0.42 [10.69]	-	-
1/0	0.39 [9.91]	0.52 [13.21]	-	-
2/0	0.44 [11.18]	0.56 [14.22]	-	-
4/0	0.55 [13.97]	0.68 [17.27]	0.54 [13.8]	0.84 [21.5]
250	0.62 [15.75]	0.75 [19.05]	0.59 [15.1]	0.94 [23.7]
350	0.71 [18.03]	0.88 [22.35]	0.71 [18.0]	1.13 [28.7]
400	0.75 [19.05]	0.94 [23.88]	-	-
500	0.82 [20.83]	1.05 [26.67]	0.84 [21.2]	1.31 [33.3]
600	0.94 [23.88]	1.07 [27.18]	0.92 [23.4]	1.44 [36.6]
750	1.06 [26.92]	1.32 [33.53]	1.03 [26.2]	1.59 [40.4]
1000	1.16 [29.46]	1.50 [38.1]	-	-

PANDUIT - COPPER

Cable Size (MCM or kcmil)	CT-920, CT-920CH, CT-930, CT-930CH, CT-2920 Die	Color & Die No.
#2	CD-920-2	Brown P33
1/0	CD-920-1/0	Pink P42
2/0	CD-920-2/0	Black P45
4/0	CD-920-4/0	Purple P54
250	CD-920-250*	Yellow P62
350	CD-920-350	Red P71
400	CD-920-400	Blue P76
500	CD-920-500	Brown P87
600	CD-920-600	Green P94
750	CD-920-750	Black P106

* Copper Tap Connector Part Nos:
HTCT250-8, HTCT250-2, HTCT250-250
* Tap Connector Die Part No: CD-930H-250

PANDUIT - ALUMINUM

Cable Size (MCM or kcmil)	CT-920, CT-920CH, CT-930, CT-930CH, CT-2920 Die	Color & Die No.
#2	CD-920-1/0	Pink P42
1/0	CD-920-3/0**	Tan P50 (Orange P50)
2/0	CD-920-4/0	Olive P54 (Purple 54)
4/0	CD-920-300	White P66
250	CD-920-350	Red P71
350	CD-920-500	Brown P87
400	CD-920-600	Green P94
500	CD-920-500A	Pink P99
600	CD-920-750	Black P106
750	-	-

** Aluminum Tap Connector Part No: HTAP2-8-L
(PANDUIT Die Color & Die No)

Note: Crimp Tools CT 2940 and CT940H may be used with adapter CD-940-DA

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