



**CONNECT AND PROTECT**

# Grounding and Bonding Braids

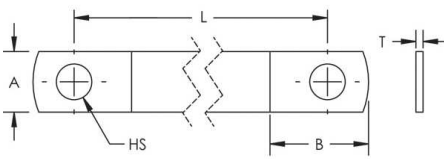
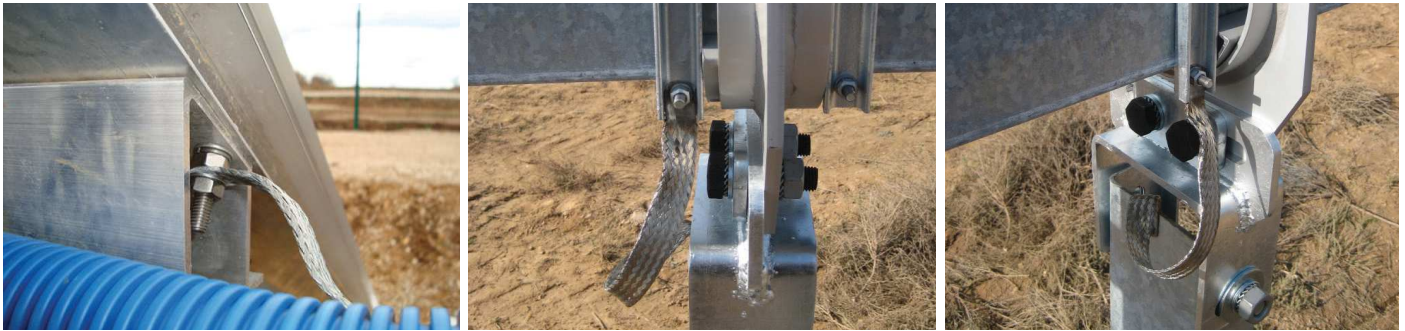
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**ERICO**



# MBJ Grounding and Bonding Braid, Tinned Copper



**Material: Copper**  
**Finish: Tinned**  
**Working Temperature: 221 °F Max**  
**Complies With: IEC® 60439.1,**  
**IEC® 61439.1**

MBJ Grounding and Bonding Braids are a reliable and convenient grounding solution for applications that require flexibility and durability. The tinned copper ground braids with massivated palms come ready to install without any additional cutting, stripping, crimping or punching and do not require the addition of tin or crimped lugs. The proprietary manufacturing process optimizes the electrical contact between each wire and helps eliminate moisture issues in the palms, preventing corrosion and lengthening the useful life of the braid.

- Complete range of earth/ground flexible connections from 6 - 100 mm<sup>2</sup> (11.84 - 197.35 kcmil) cross section and from 100 - 500 mm (3.937" - 19.685") length
- Integral palm, without tin or crimped lugs for superior electrical contact and tensile strength resistance
- Resistant to vibration and fatigue, reducing maintenance
- Provides weight savings, material savings and lower impedance when compared to similar lugged cables with insulation
- Ready to use out of the box, eliminates the need for cutting, stripping, crimping and punching
- Quick and easy to install
- Recommended by the EMC/EMI directives and less impedance than cables
- EAC compliant
- RoHS compliant



| Part Number | Article Number | Intensity | Thickness T | Cross Section | Length L | Hole Size HS | A      | B      | Unit Weight |
|-------------|----------------|-----------|-------------|---------------|----------|--------------|--------|--------|-------------|
| MBJ6-150-6  | 556600         | 40 A      | 0.043"      | 11.84 kcmil   | 5.906"   | 0.256"       | 0.433" | 0.709" | 0.022 lb    |
| MBJ6-200-6  | 563410         | 40 A      | 0.043"      | 11.84 kcmil   | 7.874"   | 0.256"       | 0.433" | 0.709" | 0.037 lb    |
| MBJ10-200-6 | 556930         | 75 A      | 0.043"      | 19.74 kcmil   | 7.874"   | 0.256"       | 0.433" | 0.709" | 0.048 lb    |
| MBJ10-300-6 | 556610         | 75 A      | 0.043"      | 19.74 kcmil   | 11.811"  | 0.256"       | 0.433" | 0.709" | 0.073 lb    |
| MBJ16-100-6 | 563540         | 120 A     | 0.059"      | 31.57 kcmil   | 3.937"   | 0.256"       | 0.591" | 0.787" | 0.040 lb    |
| MBJ16-100-8 | 556620         | 120 A     | 0.059"      | 31.57 kcmil   | 3.937"   | 0.335"       | 0.591" | 0.787" | 0.040 lb    |
| MBJ16-150-6 | 563550         | 120 A     | 0.059"      | 31.57 kcmil   | 5.906"   | 0.256"       | 0.591" | 0.787" | 0.077 lb    |
| MBJ16-150-8 | 556630         | 120 A     | 0.059"      | 31.57 kcmil   | 5.906"   | 0.335"       | 0.591" | 0.787" | 0.077 lb    |
| MBJ16-200-6 | 563300         | 120 A     | 0.059"      | 31.57 kcmil   | 7.874"   | 0.256"       | 0.591" | 0.787" | 0.073 lb    |
| MBJ16-200-8 | 556640         | 120 A     | 0.059"      | 31.57 kcmil   | 7.874"   | 0.335"       | 0.591" | 0.787" | 0.073 lb    |
| MBJ16-250-8 | 556650         | 120 A     | 0.059"      | 31.57 kcmil   | 9.843"   | 0.335"       | 0.591" | 0.787" | 0.088 lb    |
| MBJ16-300-6 | 563320         | 120 A     | 0.059"      | 31.57 kcmil   | 11.811"  | 0.256"       | 0.591" | 0.787" | 0.110 lb    |
| MBJ16-300-8 | 556660         | 120 A     | 0.059"      | 31.57 kcmil   | 11.811"  | 0.335"       | 0.591" | 0.787" | 0.110 lb    |

| Part Number   | Article Number | Intensity | Thickness T | Cross Section | Length L | Hole Size HS | A      | B      | Unit Weight |
|---------------|----------------|-----------|-------------|---------------|----------|--------------|--------|--------|-------------|
| MBJ16-500-8   | 556940         | 120 A     | 0.059"      | 31.57 kcmil   | 19.685"  | 0.335"       | 0.591" | 0.787" | 0.180 lb    |
| MBJ25-100-10  | 556670         | 150 A     | 0.059"      | 49.34 kcmil   | 3.937"   | 0.413"       | 0.866" | 1.102" | 0.059 lb    |
| MBJ25-150-10  | 556680         | 150 A     | 0.059"      | 49.34 kcmil   | 5.906"   | 0.413"       | 0.866" | 1.102" | 0.086 lb    |
| MBJ25-200-6   | 563340         | 150 A     | 0.059"      | 49.34 kcmil   | 7.874"   | 0.256"       | 0.866" | 1.102" | 0.114 lb    |
| MBJ25-200-10  | 556690         | 150 A     | 0.059"      | 49.34 kcmil   | 7.874"   | 0.413"       | 0.866" | 1.102" | 0.114 lb    |
| MBJ25-200-12  | 563430         | 150 A     | 0.059"      | 49.34 kcmil   | 7.874"   | 0.492"       | 0.866" | 1.102" | 0.114 lb    |
| MBJ25-250-10  | 556700         | 150 A     | 0.059"      | 49.34 kcmil   | 9.843"   | 0.413"       | 0.866" | 1.102" | 0.141 lb    |
| MBJ25-300-10  | 556710         | 150 A     | 0.059"      | 49.34 kcmil   | 11.811"  | 0.413"       | 0.866" | 1.102" | 0.169 lb    |
| MBJ25-500-10  | 556950         | 150 A     | 0.059"      | 49.34 kcmil   | 19.685"  | 0.413"       | 0.866" | 1.102" | 0.286 lb    |
| MBJ30-100-10  | 556720         | 180 A     | 0.079"      | 59.20 kcmil   | 3.937"   | 0.413"       | 0.866" | 1.102" | 0.070 lb    |
| MBJ30-150-10  | 556730         | 180 A     | 0.079"      | 59.20 kcmil   | 5.906"   | 0.413"       | 0.866" | 1.102" | 0.103 lb    |
| MBJ30-200-10  | 556740         | 180 A     | 0.079"      | 59.20 kcmil   | 7.874"   | 0.413"       | 0.866" | 1.102" | 0.136 lb    |
| MBJ30-250-10  | 556750         | 180 A     | 0.079"      | 59.20 kcmil   | 9.843"   | 0.413"       | 0.866" | 1.102" | 0.165 lb    |
| MBJ30-300-10  | 556760         | 180 A     | 0.079"      | 59.20 kcmil   | 11.811"  | 0.413"       | 0.866" | 1.102" | 0.202 lb    |
| MBJ30-500-10  | 556960         | 180 A     | 0.079"      | 59.20 kcmil   | 19.685"  | 0.413"       | 0.866" | 1.102" | 0.341 lb    |
| MBJ35-250-25  | 565000         | 197 A     | 0.059"      | 69.07 kcmil   | 9.843"   | 1.004"       | 1.575" | 1.772" | 0.196 lb    |
| MBJ35-100-10  | 556770         | 197 A     | 0.083"      | 69.07 kcmil   | 3.937"   | 0.413"       | 0.866" | 1.102" | 0.081 lb    |
| MBJ35-150-10  | 556780         | 197 A     | 0.083"      | 69.07 kcmil   | 5.906"   | 0.413"       | 0.866" | 1.102" | 0.119 lb    |
| MBJ35-200-10  | 556790         | 197 A     | 0.083"      | 69.07 kcmil   | 7.874"   | 0.413"       | 0.866" | 1.102" | 0.158 lb    |
| MBJ35-250-10  | 556800         | 197 A     | 0.083"      | 69.07 kcmil   | 9.843"   | 0.413"       | 0.866" | 1.102" | 0.196 lb    |
| MBJ35-300-10  | 556810         | 197 A     | 0.083"      | 69.07 kcmil   | 11.811"  | 0.413"       | 0.866" | 1.102" | 0.242 lb    |
| MBJ35-500-10  | 556970         | 197 A     | 0.083"      | 69.07 kcmil   | 19.685"  | 0.413"       | 0.866" | 1.102" | 0.396 lb    |
| MBJ50-100-10  | 556820         | 250 A     | 0.098"      | 98.68 kcmil   | 3.937"   | 0.413"       | 1.102" | 1.300" | 0.114 lb    |
| MBJ50-150-10  | 556830         | 250 A     | 0.098"      | 98.68 kcmil   | 5.906"   | 0.413"       | 1.102" | 1.300" | 0.169 lb    |
| MBJ50-200-6   | 563350         | 250 A     | 0.098"      | 98.68 kcmil   | 7.874"   | 0.256"       | 1.102" | 1.300" | 0.264 lb    |
| MBJ50-200-10  | 556840         | 250 A     | 0.098"      | 98.68 kcmil   | 7.874"   | 0.413"       | 1.102" | 1.300" | 0.264 lb    |
| MBJ50-200-12  | 563440         | 250 A     | 0.098"      | 98.68 kcmil   | 7.874"   | 0.492"       | 1.102" | 1.300" | 0.264 lb    |
| MBJ50-200-16  | 563360         | 250 A     | 0.098"      | 98.68 kcmil   | 7.874"   | 0.650"       | 1.102" | 1.300" | 0.242 lb    |
| MBJ50-200-18  | 563370         | 250 A     | 0.098"      | 98.68 kcmil   | 7.874"   | 0.728"       | 1.102" | 1.300" | 0.242 lb    |
| MBJ50-250-10  | 556850         | 250 A     | 0.098"      | 98.68 kcmil   | 9.843"   | 0.413"       | 1.102" | 1.300" | 0.279 lb    |
| MBJ50-300-6   | 563380         | 250 A     | 0.098"      | 98.68 kcmil   | 11.811"  | 0.256"       | 1.102" | 1.300" | 0.330 lb    |
| MBJ50-300-10  | 556860         | 250 A     | 0.098"      | 98.68 kcmil   | 11.811"  | 0.413"       | 1.102" | 1.300" | 0.337 lb    |
| MBJ50-300-16  | 563390         | 250 A     | 0.098"      | 98.68 kcmil   | 11.811"  | 0.650"       | 1.102" | 1.300" | 0.330 lb    |
| MBJ50-300-18  | 563400         | 250 A     | 0.098"      | 98.68 kcmil   | 11.811"  | 0.728"       | 1.102" | 1.300" | 0.308 lb    |
| MBJ50-500-10  | 556980         | 250 A     | 0.098"      | 98.68 kcmil   | 19.685"  | 0.413"       | 1.102" | 1.300" | 0.561 lb    |
| MBJ50-500-12  | 563560         | 250 A     | 0.098"      | 98.68 kcmil   | 19.685"  | 0.492"       | 1.102" | 1.300" | 0.561 lb    |
| MBJ70-300-22  | 563480         | 290 A     | 0.110"      | 138.15 kcmil  | 11.811"  | 0.886"       | 1.575" | 1.772" | 0.440 lb    |
| MBJ70-300-6   | 563450         | 290 A     | 0.133"      | 138.15 kcmil  | 11.811"  | 0.256"       | 1.102" | 1.300" | 0.462 lb    |
| MBJ70-300-10  | 563460         | 290 A     | 0.133"      | 138.15 kcmil  | 11.811"  | 0.413"       | 1.102" | 1.300" | 0.462 lb    |
| MBJ70-300-12  | 563420         | 290 A     | 0.133"      | 138.15 kcmil  | 11.811"  | 0.492"       | 1.102" | 1.300" | 0.462 lb    |
| MBJ70-300-16  | 563470         | 290 A     | 0.133"      | 138.15 kcmil  | 11.811"  | 0.650"       | 1.102" | 1.300" | 0.440 lb    |
| MBJ70-500-10  | 563490         | 290 A     | 0.133"      | 138.15 kcmil  | 19.685"  | 0.413"       | 1.102" | 1.300" | 0.748 lb    |
| MBJ100-250-16 | 563500         | 349 A     | 0.157"      | 197.35 kcmil  | 9.843"   | 0.650"       | 1.969" | 2.165" | 0.559 lb    |
| MBJ100-250-30 | 563510         | 349 A     | 0.157"      | 197.35 kcmil  | 9.843"   | 1.201"       | 1.969" | 2.165" | 0.559 lb    |
| MBJ100-500-16 | 563520         | 349 A     | 0.157"      | 197.35 kcmil  | 19.685"  | 0.650"       | 1.969" | 2.165" | 1.118 lb    |
| MBJ100-500-30 | 563530         | 349 A     | 0.157"      | 197.35 kcmil  | 19.685"  | 1.201"       | 1.969" | 2.165" | 1.118 lb    |



# Tinned Copper Braid

## SOLAR APPLICATION CASE STUDY



An opportunity for grounding in a solar application arose after nVent ERICO agent in Arizona secured a meeting with engineers from a leading manufacturer of solar tracker applications to present a value-based proposition using nVent ERICO Cadweld solutions. The meeting began with a focus on standard Cadweld applications. However, after establishing a relationship with the engineers, it was determined that a customized solution was needed above and beyond our established Cadweld applications. nVent ERICO won this job through our expertise in grounding and by being responsive to the end-use customer with a creative solution.

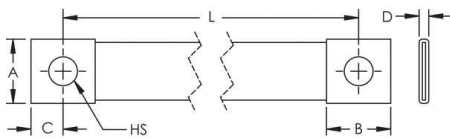
Brian Liederbach, Product Manager, Lightning and Surge Protection, was instrumental in developing the kits properly and in a timely manner. A critical requirement for this opportunity was to provide a series of assemblies with a UL® listing. Ward Judson, Bryson Allen, and Greg Martinjak obtained this listing through the in-house lab. Without the recent investment in nVent ERICO's electrical lab support and capabilities, the ability to quickly evaluate different solutions and respond to the customer would not have been possible.

This big win is significant for nVent ERICO in that it positions the company to work with large utility-scale solar PV tracker arrays and related applications. This extraordinary opportunity for nVent ERICO helps expand its footprint in North America from mainly below-grade grounding to being a leader in custom, above-grade bonding solutions.



**Braid Assembly Testing in nVent's Solon, OH Electrical Lab**

# CPI Grounding and Bonding Braid, Stainless Steel



**Material: Stainless Steel 316L  
(EN 1.4404)**

**Certification Details: UL® 467  
Complies With: IEC® 60439.1,  
IEC® 61439.1**

High-quality CPI stainless steel grounding and bonding braids can be installed in extremely corrosive environments, like offshore applications or coastal applications. The full range of CPI braids are ideal for applications using stainless steel pipe or tanks, like the food and beverage industry, building industry, transportation, oil and chemical industry.

nVent ERICO offers 316L stainless steel braids and lugs, one of the highest resistant stainless steel options on the market. Our proprietary manufacturing process has been optimized to provide the best braiding, crimping, cutting and punching.

- Superior abrasion, corrosion, chemical and UV resistance make CPI braids ideal for outdoor applications
- Great for expansion joints where constant movement requires a flexible and durable solution
- Ready to use out of the box, eliminates the need for cutting, stripping, crimping and punching
- Quick and easy to install
- Resistant to vibration and fatigue, reducing maintenance
- Will not rust or discolor, so the appearance will never fade or change
- Excellent electrical contact
- No additional lugs or terminals needed
- Non-magnetic material
- Recommended by the EMC/EMI directives
- Performs to the class C5 (very high) category as per ISO® 12944-2
- EAC compliant
- RoHS compliant



| Part Number   | Article Number | Cross Section | Length L | Hole Size HS | A      | B      | C      | D      | Unit Weight |
|---------------|----------------|---------------|----------|--------------|--------|--------|--------|--------|-------------|
| CPI16-150-8   | 554277         | 31.57 kcmil   | 5.906"   | 0.335"       | 0.689" | 0.787" | 0.394" | 0.118" | 0.068 lb    |
| CPI16-200-8   | 554278         | 31.57 kcmil   | 7.874"   | 0.335"       | 0.689" | 0.787" | 0.394" | 0.118" | 0.082 lb    |
| CPI16-250-8   | 554279         | 31.57 kcmil   | 9.843"   | 0.335"       | 0.689" | 0.787" | 0.394" | 0.118" | 0.095 lb    |
| CPI16-300-8   | 554280         | 31.57 kcmil   | 11.811"  | 0.335"       | 0.689" | 0.787" | 0.394" | 0.118" | 0.110 lb    |
| CPI16-400-8   | 554282         | 31.57 kcmil   | 15.748"  | 0.335"       | 0.689" | 0.787" | 0.394" | 0.118" | 0.137 lb    |
| CPI16-600-8   | 554286         | 31.57 kcmil   | 23.622"  | 0.335"       | 0.689" | 0.787" | 0.394" | 0.118" | 0.192 lb    |
| CPI25-150-10  | 554299         | 49.34 kcmil   | 5.906"   | 0.413"       | 1.043" | 1.181" | 0.591" | 0.138" | 0.128 lb    |
| CPI25-200-10  | 554300         | 49.34 kcmil   | 7.874"   | 0.413"       | 1.043" | 1.181" | 0.591" | 0.138" | 0.150 lb    |
| CPI25-250-10  | 554301         | 49.34 kcmil   | 9.843"   | 0.413"       | 1.043" | 1.181" | 0.591" | 0.138" | 0.172 lb    |
| CPI25-300-10  | 554302         | 49.34 kcmil   | 11.811"  | 0.413"       | 1.043" | 1.181" | 0.591" | 0.138" | 0.194 lb    |
| CPI25-400-10  | 554304         | 49.34 kcmil   | 15.748"  | 0.413"       | 1.043" | 1.181" | 0.591" | 0.138" | 0.238 lb    |
| CPI25-600-10  | 554308         | 49.34 kcmil   | 23.622"  | 0.413"       | 1.043" | 1.181" | 0.591" | 0.138" | 0.324 lb    |
| CPI35-150-12  | 554321         | 69.07 kcmil   | 5.906"   | 0.512"       | 1.043" | 1.181" | 0.591" | 0.157" | 0.157 lb    |
| CPI35-200-12  | 554322         | 69.07 kcmil   | 7.874"   | 0.512"       | 1.043" | 1.181" | 0.591" | 0.157" | 0.187 lb    |
| CPI35-250-12  | 554323         | 69.07 kcmil   | 9.843"   | 0.512"       | 1.043" | 1.181" | 0.591" | 0.157" | 0.218 lb    |
| CPI35-300-12  | 554324         | 69.07 kcmil   | 11.811"  | 0.512"       | 1.043" | 1.181" | 0.591" | 0.157" | 0.247 lb    |
| CPI35-400-12  | 554326         | 69.07 kcmil   | 15.748"  | 0.512"       | 1.043" | 1.181" | 0.591" | 0.157" | 0.309 lb    |
| CPI35-600-12  | 554330         | 69.07 kcmil   | 23.622"  | 0.512"       | 1.043" | 1.181" | 0.591" | 0.157" | 0.430 lb    |
| CPI50-150-12  | 554343         | 98.68 kcmil   | 5.906"   | 0.512"       | 1.181" | 1.181" | 0.591" | 0.197" | 0.245 lb    |
| CPI50-200-12  | 554344         | 98.68 kcmil   | 7.874"   | 0.512"       | 1.181" | 1.181" | 0.591" | 0.197" | 0.287 lb    |
| CPI50-250-12  | 554345         | 98.68 kcmil   | 9.843"   | 0.512"       | 1.181" | 1.181" | 0.591" | 0.197" | 0.331 lb    |
| CPI50-300-12  | 554346         | 98.68 kcmil   | 11.811"  | 0.512"       | 1.181" | 1.181" | 0.591" | 0.197" | 0.375 lb    |
| CPI50-400-12  | 554348         | 98.68 kcmil   | 15.748"  | 0.512"       | 1.181" | 1.181" | 0.591" | 0.197" | 0.461 lb    |
| CPI50-600-12  | 554352         | 98.68 kcmil   | 23.622"  | 0.512"       | 1.181" | 1.181" | 0.591" | 0.197" | 0.635 lb    |
| CPI70-1100-12 | 554384         | 138.15 kcmil  | 43.307"  | 0.512"       | 1.181" | 1.181" | 0.591" | 0.228" | 1.464 lb    |
| CPI70-150-12  | 554365         | 138.15 kcmil  | 5.906"   | 0.512"       | 1.181" | 1.181" | 0.591" | 0.228" | 0.306 lb    |
| CPI70-200-12  | 554366         | 138.15 kcmil  | 7.874"   | 0.512"       | 1.181" | 1.181" | 0.591" | 0.228" | 0.368 lb    |
| CPI70-250-12  | 554367         | 138.15 kcmil  | 9.843"   | 0.512"       | 1.181" | 1.181" | 0.591" | 0.228" | 0.428 lb    |
| CPI70-300-12  | 554368         | 138.15 kcmil  | 11.811"  | 0.512"       | 1.181" | 1.181" | 0.591" | 0.228" | 0.489 lb    |
| CPI70-400-12  | 554370         | 138.15 kcmil  | 15.748"  | 0.512"       | 1.181" | 1.181" | 0.591" | 0.228" | 0.611 lb    |
| CPI70-600-12  | 554374         | 138.15 kcmil  | 23.622"  | 0.512"       | 1.181" | 1.181" | 0.591" | 0.228" | 0.855 lb    |
| CPI70-800-12  | 554378         | 138.15 kcmil  | 31.496"  | 0.512"       | 1.181" | 1.181" | 0.591" | 0.228" | 1.098 lb    |

# Stainless Steel Braid – Oil & Gas Application

## OILFIELD GROUNDING ELECTRIC CASE STUDY



### **OPPORTUNITY: “THIEF HATCH” BONDING UTILIZING STAINLESS STEEL BRAID; 100+ STAINLESS STEEL BRAIDS PER WEEK**

On an oil tank storage facility, each tank utilizes a “thief hatch”. Thief hatches are used to relieve pressure within fiberglass and steel tanks, as well as offer a place to take a sample of the contents within the tank.

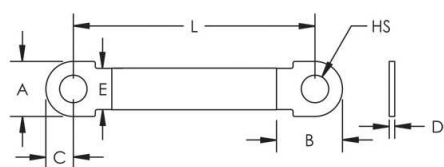
The stainless braids that a customer was utilizing were custom made for oil-field applications. Stainless braid is utilized due to the corrosive nature of these sites. We had a braid that was close to the specifications needed for the application (554370), but the hole dimensions on each end of the braid needed to be adjusted.

The manufacturer of the tank and thief hatch utilizes  $\frac{1}{4}$ ” fastening hardware on one side and  $\frac{1}{2}$ ” on the opposite side, thus, a new part was designed for the application.

We estimated “safety stock” to ensure we can fulfill demand, even as oil and gas production increases. We also asked the participating distributor that would be selling to the end-user to maintain some level of stock. They agreed to a proposal of purchasing a stocking level of 750 stainless steel braids. This, along with safety stock at our Solon, OH facility, should be enough to meet demand.



# CPIW Grounding and Bonding Braid, Stainless Steel for Large Bolts



**Material: Stainless Steel 316L  
(EN 1.4404)**  
**Certification Details: UL® 467**  
**Complies With: IEC® 60439.1;**  
**IEC® 61439.1**

High-quality CPIW stainless steel grounding and bonding braids can be installed in extremely corrosive environments, like offshore applications or coastal applications. The full range of CPIW braids are ideal for applications using stainless steel pipe or tanks, like the food and beverage industry, building industry, transportation, oil and chemical industry.

nVent ERICO offers 316L stainless steel braids, one of the highest resistant stainless steel options on the market. Our proprietary manufacturing process has been optimized to provide the best braiding, welding, and connection palm.

- Superior abrasion, corrosion, chemical and UV resistance make CPIW braids ideal for outdoor applications
- Covering from M20 (3/4"-10) up to M42 (1 1/2"-6) bolt fixation point
- Great for expansion joints where constant movement requires a flexible and durable solution
- Ready to use out of the box, eliminates the need for cutting, stripping, crimping and punching
- Quick and easy to install
- Resistant to vibration and fatigue, reducing maintenance
- Will not rust or discolor, so the appearance will never fade or change
- Excellent electrical contact
- No additional lugs or terminals needed
- Non-magnetic material
- Recommended by the EMC/EMI directives
- Performs to the class C5 (very high) category as per ISO® 12944-2
- EAC compliant
- RoHS compliant

**Material: Stainless Steel 316L (EN 1.4404)**

**Certification Details: UL® 467**

**Complies With: IEC® 60439.1; IEC® 61439.1**



| Part Number    | Article Number | Cross Section (kcmil) | L (")  | HS (") | A (") | B (") | C (") | D (") | E (") | Unit Weight (lb) | Minimum Order Quantity |
|----------------|----------------|-----------------------|--------|--------|-------|-------|-------|-------|-------|------------------|------------------------|
| CPIW50-200-20B | 554386B        | 98.68                 | 7.874  | 0.819  | 1.653 | 2.008 | 0.827 | 0.118 | 1.181 | 0.282            | 50                     |
| CPIW50-200-24B | 554401B        | 98.68                 | 7.874  | 0.990  | 2.047 | 2.441 | 1.024 | 0.118 | 1.181 | 0.341            | 50                     |
| CPIW50-250-20B | 554398B        | 98.68                 | 9.843  | 0.819  | 1.653 | 2.008 | 0.827 | 0.118 | 1.181 | 0.327            | 50                     |
| CPIW50-250-24B | 554403B        | 98.68                 | 9.843  | 0.990  | 2.047 | 2.441 | 1.024 | 0.118 | 1.181 | 0.388            | 50                     |
| CPIW50-250-27B | 554405B        | 98.68                 | 9.843  | 1.102  | 2.283 | 2.717 | 1.142 | 0.118 | 1.181 | 0.429            | 50                     |
| CPIW50-250-30B | 554407B        | 98.68                 | 9.843  | 1.220  | 2.441 | 2.913 | 1.220 | 0.118 | 1.181 | 0.457            | 50                     |
| CPIW50-300-20B | 554427B        | 98.68                 | 11.811 | 0.819  | 1.653 | 2.008 | 0.827 | 0.118 | 1.181 | 0.441            | 50                     |
| CPIW50-300-24B | 554428B        | 98.68                 | 11.811 | 0.990  | 2.047 | 2.441 | 1.024 | 0.118 | 1.181 | 0.463            | 50                     |
| CPIW50-300-27B | 554429B        | 98.68                 | 11.811 | 1.102  | 2.283 | 2.717 | 1.142 | 0.118 | 1.181 | 0.485            | 50                     |
| CPIW50-300-30B | 554409B        | 98.68                 | 11.811 | 1.220  | 2.441 | 2.913 | 1.220 | 0.118 | 1.181 | 0.504            | 50                     |
| CPIW50-300-33B | 554412B        | 98.68                 | 11.811 | 1.338  | 2.677 | 3.071 | 1.339 | 0.118 | 1.181 | 0.542            | 50                     |
| CPIW50-300-39B | 554416B        | 98.68                 | 11.811 | 1.574  | 3.071 | 3.504 | 1.535 | 0.118 | 1.181 | 0.627            | 50                     |
| CPIW50-300-42B | 554421B        | 98.68                 | 11.811 | 1.692  | 3.228 | 3.701 | 1.614 | 0.118 | 1.181 | 0.664            | 50                     |
| CPIW50-400-33B | 554414B        | 98.68                 | 15.748 | 1.338  | 2.677 | 3.071 | 1.339 | 0.118 | 1.181 | 0.636            | 50                     |
| CPIW50-400-39B | 554418B        | 98.68                 | 15.748 | 1.574  | 3.071 | 3.504 | 1.535 | 0.118 | 1.181 | 0.721            | 50                     |
| CPIW50-400-42B | 554423B        | 98.68                 | 15.748 | 1.692  | 3.228 | 3.701 | 1.614 | 0.118 | 1.181 | 0.758            | 50                     |
| CPIW70-200-20B | 554397B        | 138.15                | 7.874  | 0.819  | 1.653 | 2.008 | 0.827 | 0.118 | 1.181 | 0.328            | 50                     |
| CPIW70-200-24B | 554402B        | 138.15                | 7.874  | 0.990  | 2.047 | 2.441 | 1.024 | 0.118 | 1.181 | 0.385            | 50                     |
| CPIW70-250-20B | 554399B        | 138.15                | 9.843  | 0.819  | 1.653 | 2.008 | 0.827 | 0.118 | 1.181 | 0.392            | 50                     |
| CPIW70-250-24B | 554404B        | 138.15                | 9.843  | 0.990  | 2.047 | 2.441 | 1.024 | 0.118 | 1.181 | 0.448            | 50                     |
| CPIW70-250-27B | 554406B        | 138.15                | 9.843  | 1.102  | 2.283 | 2.717 | 1.142 | 0.118 | 1.181 | 0.487            | 50                     |
| CPIW70-250-30B | 554408B        | 138.15                | 9.843  | 1.220  | 2.441 | 2.913 | 1.220 | 0.118 | 1.181 | 0.513            | 50                     |
| CPIW70-300-30B | 554411B        | 138.15                | 11.811 | 1.220  | 2.441 | 2.913 | 1.220 | 0.118 | 1.181 | 0.577            | 50                     |
| CPIW70-300-33B | 554413B        | 138.15                | 11.811 | 1.338  | 2.677 | 3.071 | 1.339 | 0.118 | 1.181 | 0.614            | 50                     |
| CPIW70-300-39B | 554417B        | 138.15                | 11.811 | 1.574  | 3.071 | 3.504 | 1.535 | 0.118 | 1.181 | 0.695            | 50                     |
| CPIW70-300-42B | 554422B        | 138.15                | 11.811 | 1.692  | 3.228 | 3.701 | 1.614 | 0.118 | 1.181 | 0.730            | 50                     |
| CPIW70-400-20B | 554388B        | 138.15                | 15.748 | 0.819  | 1.653 | 2.008 | 0.827 | 0.118 | 1.181 | 0.582            | 50                     |
| CPIW70-400-33B | 554415B        | 138.15                | 15.748 | 1.338  | 2.677 | 3.071 | 1.339 | 0.118 | 1.181 | 0.740            | 50                     |
| CPIW70-400-39B | 554419B        | 138.15                | 15.748 | 1.574  | 3.071 | 3.504 | 1.535 | 0.118 | 1.181 | 0.822            | 50                     |
| CPIW70-400-42B | 554424B        | 138.15                | 15.748 | 1.692  | 3.228 | 3.701 | 1.614 | 0.118 | 1.181 | 0.857            | 50                     |



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