

# BRIDGOLD

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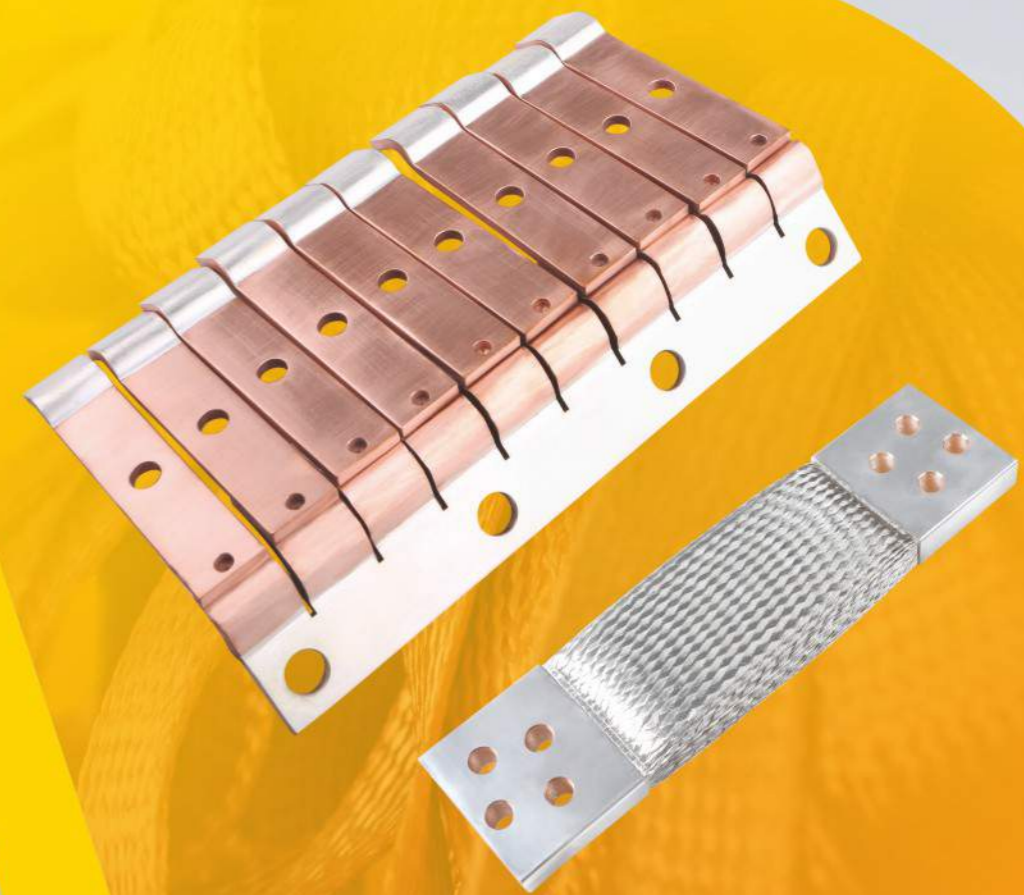


Professional manufacturer of flexible copper connectors.

# BRIDGOLD

PROFESSIONAL MANUFACTURER of  
FLEXIBLE COPPER CONNECTORS  
2017

BRIDGOLD 金桥铜业



## 金桥铜业

ZHEJIANG BRIDGOLD COPPER SCIENCE AND TECHNOLOGY CO.LTD

2017





BRIDGOLD is one of the largest manufacturers and suppliers of FLEXIBLE COPPER CONNECTORS in China. Founded in 1980, we have decades of experience and technology in manufacturing FLEXIBLE COPPER CONNECTORS of more than 2,000 models for Chinese and International clients, and provide them with the professional electrical conduction and earthing solutions. Our annual output of copper amounts to 4,000 tons.

BRIDGOLD owns modernized workshops covering an area of 30,000 square meters and 210 staffs including 20 professional technicians and QC. Our highly qualified engineers guarantee the quality in the whole process of production. And we have certifications of ISO9001, TS16949, ISO14001 and RoHS.

BRIDGOLD is the qualified supplier for more than 3000 enterprises, and some of them are the world top ones, like ABB, HONDA, SCHNEIDER, SIEMENS, TOSHIBA, MITSUBISHI, EMERSON, GE and China CRRC.

Our goal is to create a professional customization-oriented enterprise of FLEXIBLE COPPER CONNECTORS.



## WHY BRIDGOLD?

### Braiding Technology

We have high-speed automatic wire braiding machines with wire breakage protection. We can braid copper wires, stainless steel wires, aluminum wires and silver wires.

### Raw Material

C11000 oxygen-free copper with copper purity over 99.95%, which leads to lower resistance and better conductivity.

### ISO & ROHS

We have certifications of ISO9001, TS16949, ISO14001 and RoHS.

### Devoted Team

A devoted young team creates limitless possibilities FOR YOU!

### Global Business

BRIDGOLD is the qualified supplier for more than 3,000 enterprises in China and abroad, and some of them are the world top ones, like CHINA CSR, ABB, HONDA, SCHNEIDER, SIEMENS, TOSHIBA, MITSUBISHI AND GE.

### On-line Marketing

Based on on-line promotion, you can find BRIDGOLD and our products easily on Internet.

### Large Range

Single wire diameter of copper braids covers 0.05, 0.07, 0.10, 0.12, 0.127, 0.15, 0.20, 0.25, 0.254, 0.29, 0.30mm ....., or AWG30, AWG32, AWG34, AWG36, AWG38, AWG41, AWG44 ..... And single layer thickness of laminated copper connectors covers 0.05, 0.10, 0.20, 0.30, 0.50mm .....

### Development & Customization

Our highly qualified engineers guarantee the quality in the whole process of production. And our goal is to create a professional customization-oriented enterprise of FLEXIBLE COPPER CONNECTORS.



## QUALITY MANAGEMENT



ISO 9001:2008

ISO/TS 16949:2009

## COMPANY HONORS



High Growth Enterprise (YUEQING)

Elite Growth Enterprise (WENZHOU)

Charity Contribution Award (WENZHOU)



Top 50 Enterprise (LIUSHI)

## ENVIRONMENT MANAGEMENT



RoHS TEST REPORTS



Star Enterprise (YUEQING)



# CONTENT

## Part 1 Braided Copper Wires and Braided Copper Connectors

1.1 Flexible Copper Braided Wires	01
1.1.1 Single Wire Diameter: 0.15mm (standard)	02
1.1.2 Single Wire Diameter: 0.05mm (AWG 44)	03
1.1.3 Single Wire Diameter: 0.07mm (AWG 41)	03
1.1.4 Single Wire Diameter: 0.10mm (AWG 38)	04
1.1.5 Single Wire Diameter: 0.12mm	04
1.1.6 Single Wire Diameter: 0.127mm (AWG 36)	05
1.1.7 Single Wire Diameter: 0.20mm (AWG 32)	06
1.2 Copper Shielding Wires	07
1.3 Copper Braided Mesh	08
1.4 Copper Braided Connectors with Ferrules	09
1.4.1 Cross Sectional Area: 1.5mm <sup>2</sup> -70mm <sup>2</sup>	10
1.4.2 Cross Sectional Area: 95mm <sup>2</sup> -200mm <sup>2</sup>	11
1.4.3 Cross Sectional Area: 250mm <sup>2</sup> -600mm <sup>2</sup>	12
1.4.4 Cross Sectional Area: 700mm <sup>2</sup> -1000mm <sup>2</sup>	13
1.4.5 Cross Sectional Area: 1200mm <sup>2</sup> -6000mm <sup>2</sup>	14
1.5 Copper Braided Connectors with Lugs	15-17
1.6 Copper Braided Connectors with Welded Ends	18-19
1.7 Copper Braided Connectors with insulation	20
1.8 Customized Product Show (Braided Copper Connectors)	21-22

## Part 2 Stranded Copper Wires and Stranded Copper Connectors

2.1 BGTJR(X) Type Flexible Copper Stranded Wires	23
2.1.1 BGTJR(X) 1 Flexible Copper Stranded Wires	24
Single Wire Diameter: 0.25mm-1.05mm (AWG30-AWG18)	24
2.1.2 BGTJR(X) 2 Flexible Copper Stranded Wires	25
Single Wire Diameter: 0.20mm (AWG32)	25
2.1.3 BGTJR(X) 3 Flexible Copper Stranded Wires	26
Single Wire Diameter: 0.15mm	26
2.2 BGTS(X) and BGTSR(X) Type Flexible Copper Stranded Wires for Electric Brush	27
2.2.1 BGTS(X) Type Flexible Copper Stranded Wires for Electric Brush	28
Round Type: Single Wire Diameter: 0.12mm, 0.10mm (AWG38 )	28
2.2.2 BGTSR(X) Type Flexible Copper Stranded Wires for Electric Brush	29
Round Type: Single Wire Diameter: 0.07mm(AWG41), 0.05mm (AWG44)	29-30
2.2.3 BGTSR(X)F Type Flexible Copper Stranded Wires for Electric Brush	31
Square Type: Single Wire Diameter: 0.05mm (AWG44)	31
2.3 BGTJRV(X) Type Insulated Flexible Copper Stranded Wires	32-33
2.4 BGJT(X) Type Hard Drawn Copper Stranded Wires	34
2.5 Copper Stranded Connectors with Ferrules	35
2.5.1 Cross Sectional Area: 1.5mm <sup>2</sup> -95mm <sup>2</sup>	36
2.5.2 Cross Sectional Area: 100mm <sup>2</sup> -500mm <sup>2</sup>	37
2.6 Copper Stranded Connectors with Lugs	38-39
2.7 Copper Stranded Connectors with Insulation	40
2.8 Customized Product Show (Stranded Copper Connectors)	41-42



## Part 3 Laminated Copper Shunts

3.1 Flexible Copper Foil Laminated Connectors with Welded Ends	43-45
3.1.1 No-Plating Flexible Copper Foil Laminated Connectors	46
3.1.2 Tin-, Nickel-, and Silver-Plating Flexible Copper Foil Laminated Connectors	47
3.1.3 Flexible Laminated Copper Connectors with Nickel Foils or Silver Foils on Upper and Lower Laminations	48
3.1.4 Flexible Copper Foil Laminated Connectors with Insulation	49
3.2 Flexible Copper Foil Laminated Connectors with Ferrules	50
3.3 Flexible Insulated Copper Busbars	51-53
3.4 Customized Product Show (Flexible Laminated Copper Connectors)	54-56

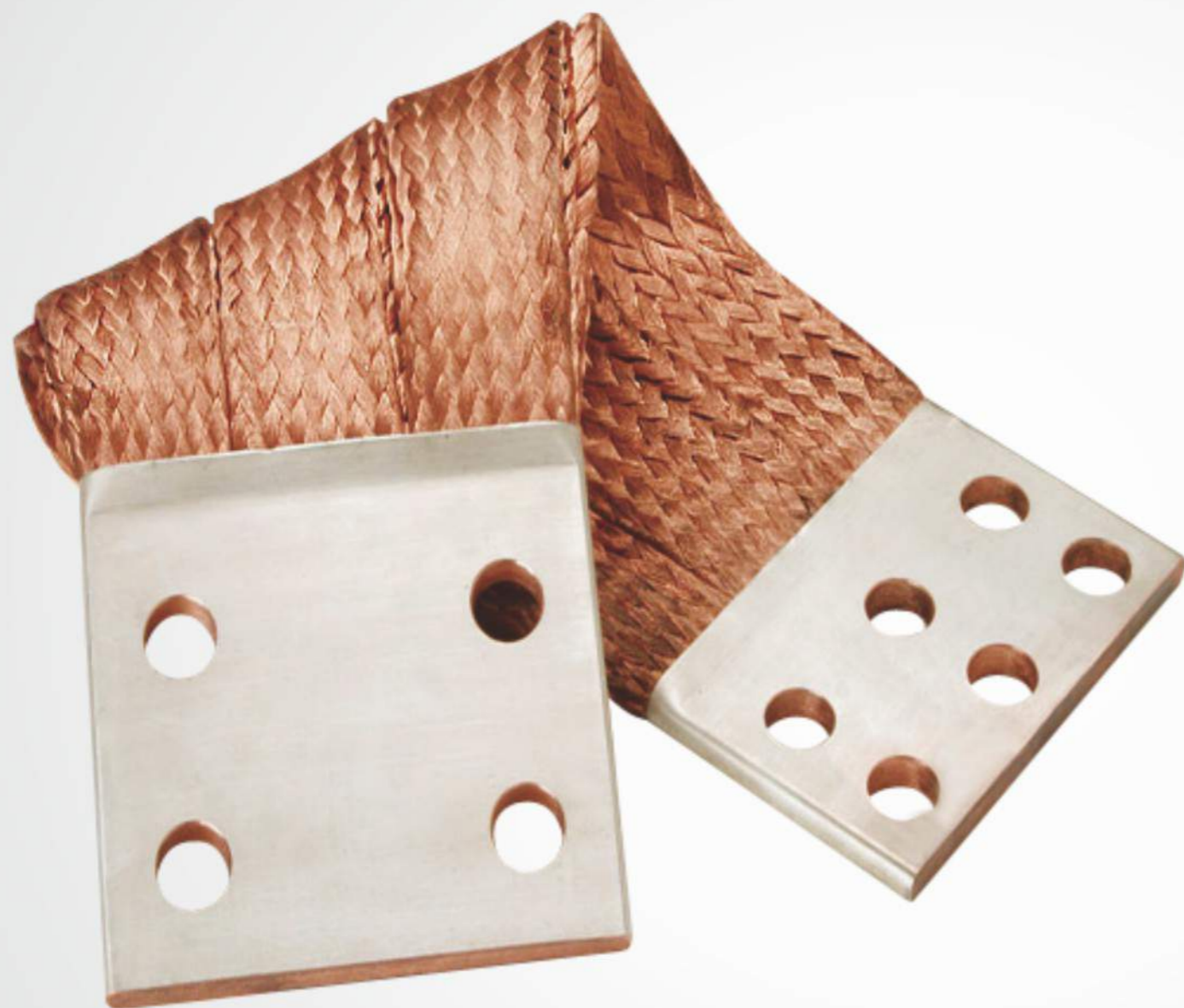
## Part 4 Other Copper Products

4.1 Annealed Copper Binding Wire	57
4.2 TMY Type Copper Bus Bars	58-60
4.3 Customized Copper Bus Bars and Copper Parts	61
4.4 Copper Lugs and Copper Aluminum Bi-metal Lugs	62
4.4.1 SC Copper Lugs	62
4.4.2 JG Copper Lugs	63
4.4.3 DT Copper Lugs	64
4.4.4 RNB Copper Lugs	65
4.4.5 OT Copper Lugs	66
4.4.6 UT Copper Lugs	67
4.4.7 DTL-1 Bi-Metal Copper-Aluminum Lugs	68
4.4.8 DTL-2 Bi-Metal Copper-Aluminum Lugs	69
4.5 Customized Copper Lug and Terminals	70

## Part 5 Products In Other Materials

5.1 Aluminum Products	71
5.1.1 Aluminum Lugs	71
5.1.2 Aluminum Foil Laminated Connectors	72
5.1.3 Aluminum Wire Braided Connectors	73-74
5.2 Copper Clad Aluminum (CCA) Wire Braided Connectors	75
5.3 Stainless Steel Wire Braided Connectors	76-77
5.4 Special Metal Wire Braids	78





## Part 1

### BRAIDED COPPER WIRES AND BRAIDED COPPER CONNECTORS

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#### 1.1 Flexible Copper Braided Wires

- 1.1.1 Single Wire Diameter: 0.15mm (standard)
- 1.1.2 Single Wire Diameter: 0.05mm (AWG 44)
- 1.1.3 Single Wire Diameter: 0.07mm (AWG 41)
- 1.1.4 Single Wire Diameter: 0.10mm (AWG 38)
- 1.1.5 Single Wire Diameter: 0.12mm
- 1.1.6 Single Wire Diameter: 0.127mm (AWG 36)
- 1.1.7 Single Wire Diameter: 0.20mm (AWG 32)

#### 1.2 Copper Shielding Wires

#### 1.3 Copper Braided Mesh

#### 1.4 Copper Braided Connectors with Ferrules

- 1.4.1 Cross Sectional Area: 1.5mm<sup>2</sup>-70mm<sup>2</sup>
- 1.4.2 Cross Sectional Area: 95mm<sup>2</sup>-200mm<sup>2</sup>
- 1.4.3 Cross Sectional Area: 250mm<sup>2</sup>-600mm<sup>2</sup>
- 1.4.4 Cross Sectional Area: 700mm<sup>2</sup>-1000mm<sup>2</sup>
- 1.4.5 Cross Sectional Area: 1200mm<sup>2</sup>-6000mm<sup>2</sup>

#### 1.5 Copper Braided Connectors with Lugs

#### 1.6 Copper Braided Connectors with Welded Ends

#### 1.7 Copper Braided Connectors with insulation

#### 1.8 Customized Product Show (Braided Copper Connectors)



# BRAIDED COPPER WIRES



## 1.1 Flexible Copper Braided Wires

### CONSTRUCTION AND APPLICATION

The flexible copper braided wires can be used for flexible conduction and grounding connection of electrical installation, switch gear, electrical furnace, storage battery, etc.

The braided copper wires consist of Cu-ETP wires which are braided according to standard JB/T6313.2-2011

### TECHNICAL DATA

Material: annealed Cu-ETP wires, C11000, copper content ≥ 99.95%

Finish: bare, tin plating, nickel plating, silver plating

Single Wire Diameter:

- 0.05mm (AWG 44)
- 0.07mm (AWG 41)
- 0.10mm (AWG 38)
- 0.12mm
- 0.127mm (AWG 36)
- 0.15mm (standard)
- 0.20mm (AWG 32)
- 0.25mm
- 0.254mm (AWG 30)
- .....

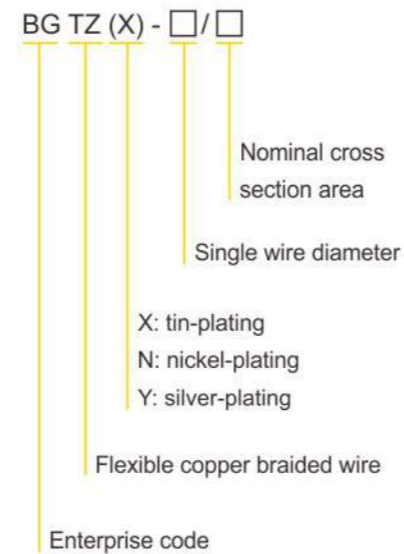
Carrier Number: 13, 16, 24, 32, 36, 40, 48, 64, 96

Cross Sectional Area: 0.2mm<sup>2</sup> - 300mm<sup>2</sup>

Packing Modes: in rolls, on spools or wooden drums

### Customization Upon Request

### MODEL AND MEANING



## BGTZ-15/BGTZX-15 Single Wire Diameter: 0.15mm (standard)

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Measured Cross Section (mm <sup>2</sup> )	Wire Structure Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Width Approx. (mm)	Thickness Approx. (mm)	Weight Approx. (kg/km)	Max. Current Capacity (A, ambient temperature 35°C)
BGTZ(X)-15/1.5	1.5	1.69	24×4×1/0.15	4.0	0.8	15.8	21
BGTZ(X)-15/2	2	2.12	24×5×1/0.15	5.0	0.8	19.6	25
BGTZ(X)-15/2.5	2.5	2.54	24×6×1/0.15	6.0	0.8	23.5	30
BGTZ(X)-15/3	3	2.97	24×7×1/0.15	6.2	1.0	27.4	35
BGTZ(X)-15/4	4	4.24	24×10×1/0.15	7.0	1.2	39.2	40
		3.95	32×7×1/0.15	8.0	1.0	36.5	
		4.52	32×8×1/0.15	7.5	1.0	41.2	
BGTZ(X)-15/6	6	4.23	48×5×1/0.15	12.0	0.8	39.1	55
		6.24	32×11×1/0.15	10.0	1.2	57.5	
		6.36	36×10×1/0.15	11.0	1.2	58.9	
BGTZ(X)-15/8	8	5.93	48×7×1/0.15	12.0	1.0	54.8	70
		8.48	32×15×1/0.15	12.0	1.5	78.4	
		8.45	48×10×1/0.15	13.0	1.2	79.0	
BGTZ(X)-15/10	10	7.91	64×7×1/0.15	18.0	1.0	73.2	85
		10.18	24×24×1/0.15	12.5	2.0	95.0	
		10.7	36×16×1/0.15	14.0	1.5	95.0	
		10.60	40×15×1/0.15	15.0	1.5	98.0	
		10.18	48×12×1/0.15	16.0	1.3	94.0	
BGTZ(X)-15/11	11	11.02	48×13×1/0.15	18.0	1.3	102.0	90
		12.72	24×30×1/0.15	14.0	2.0	118.0	
BGTZ(X)-15/12	12	12.72	48×15×1/0.15	18.0	1.5	118.0	95
		12.43	64×11×1/0.15	22.0	1.3	116.1	
BGTZ(X)-15/16	16	16.96	24×40×1/0.15	16.0	2.2	159.0	120
		16.96	48×20×1/0.15	22.0	1.8	159.0	
BGTZ(X)-15/20	20	21.20	24×50×1/0.15	18.0	2.5	198.0	135
		21.20	48×25×1/0.15	25.0	2.0	198.0	
BGTZ(X)-15/25	25	25.45	24×60×1/0.15	22.0	3.0	238.0	150
		25.45	48×30×1/0.15	28.0	1.8	238.0	
		25.45	48×15×2/0.15	20.0	3.5	238.0	
BGTZ(X)-15/35	35	33.93	24×80×1/0.15	25.0	4.0	317.0	195
		33.93	32×60×1/0.15	28.0	3.0	317.0	
		33.93	64×30×1/0.15	40.0	2.0	317.0	
		33.93	48×20×2/0.15	26.0	3.5	317.0	
BGTZ(X)-15/50	50	50.02	24×118×1/0.15	30.0	6.0	472.0	250
		50.23	36×79×1/0.15	35.0	4.0	473.0	
		50.87	64×45×1/0.15	50.0	2.5	480.0	
		50.87	48×30×2/0.15	30.0	3.5	480.0	
		50.89	48×20×3/0.15	28.0	4.8	483.0	
BGTZ(X)-15/70	70	67.82	64×30×2/0.15	41.0	4.0	633.0	300
		75.03	36×118×1/0.15	35.0	6.0	710.0	
BGTZ(X)-15/75	75	76.34	48×90×1/0.15	50.0	5.0	725.0	325
		75.73	64×67×1/0.15	58.0	3.2	720.0	
		74.88	80×53×1/0.15	55.0	13.5	699.7	
		76.34	48×30×3/0.15	32.0	5.0	726.0	
BGTZ(X)-15/95	95	94.74	36×149×1/0.15	45.0	6.0	885.3	360
		94.95	48×112×1/0.15	55.0	5.0	887.3	
		94.95	64×84×1/0.15	60.0	4.0	887.3	
BGTZ(X)-15/100	100	94.95	48×28×4/0.15	35.0	6.0	895.7	380
		99.83	36×157×1/0.15	45.0	6.0	932.8	
		100.04	48×118×1/0.15	55.0	5.0	934.8	
		100.09	96×59×1/0.15	100	2.0	943.7	
		101.74	64×45×2/0.15	50.0	5.0	959.8	
		101.74	64×30×3/0.15	42.0	6.0	959.8	
BGTZ(X)-15/120	120	101.74	48×30×4/0.15	32.0	7.5	959.8	400
		126.32	48×149×1/0.15	55.0	6.0	1180.4	
		120.95	64×107×1/0.15	60.0	4.0	1130.3	
		118.69	96×70×1/0.15	95.0	3.2	1119.7	
		127.17	48×30×5/0.15	37.0	7.0	1199.7	

Customization Upon Request





## BRAIDED COPPER WIRES

### BGTZ-05/BGTZX-05 Single Wire Diameter: 0.05mm (AWG 44)

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Measured Cross Section (mm <sup>2</sup> )	Wire Structure Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Width Approx. (mm)	Thickness Approx. (mm)	Weight Approx. (kg/km)	Max. Current Capacity (A, ambient temperature 35°C)
BGTZ(X)-05/1.5	1.5	1.50	24×32×1/0.05	4.0	1.0	14.1	21
BGTZ(X)-05/2.5	2.5	2.54	24×54×1/0.05	6.0	0.8	23.7	30
BGTZ(X)-05/4	4	4.00	24×85×1/0.05	7.0	1.2	37.4	40
BGTZ(X)-05/6	6	6.03	24×128×1/0.05	8.0	1.5	56.3	55
BGTZ(X)-05/10	10	10.03	24×213×1/0.05	12.5	2.0	93.8	85
BGTZ(X)-05/16	16	16.01	24×340×1/0.05	16.0	2.2	149.6	120
BGTZ(X)-05/25	25	24.96	24×530×1/0.05	22.0	3.0	233.2	150
BGTZ(X)-05/35	35	34.99	24×743×1/0.05	25.0	4.0	327.0	195
BGTZ(X)-05/50	50	50.02	32×1062×1/0.05	30.0	6.0	467.4	250
BGTZ(X)-05/75	75	75.03	36×1062×1/0.05	35.0	6.0	701.1	325
BGTZ(X)-05/100	100	100.04	36×1416×1/0.05	45.0	6.0	934.8	380
		100.04	48×1062×1/0.05	55.0	5.0	934.8	380

Customization Upon Request

### BGTZ-07/BGTZX-07 Single Wire Diameter: 0.07mm (AWG 41)

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Measured Cross Section (mm <sup>2</sup> )	Wire Structure Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Width Approx. (mm)	Thickness Approx. (mm)	Weight Approx. (kg/km)	Max. Current Capacity (A, ambient temperature 35°C)
BGTZ(X)-07/1.5	1.5	1.47	24×16×1/0.07	4.0	1.0	13.8	21
BGTZ(X)-07/2.5	2.5	2.58	24×28×1/0.07	6.0	0.8	24.1	30
BGTZ(X)-07/4	4	4.06	24×44×1/0.07	7.0	1.2	37.9	40
BGTZ(X)-07/6	6	6.00	24×65×1/0.07	8.0	1.5	56.0	55
BGTZ(X)-07/10	10	9.97	24×108×1/0.07	12.5	2.0	93.1	85
BGTZ(X)-07/16	16	16.06	24×174×1/0.07	16.0	2.2	150.1	120
BGTZ(X)-07/25	25	24.92	24×270×1/0.07	22.0	3.0	232.9	150
BGTZ(X)-07/35	35	35.08	24×380×1/0.07	25.0	4.0	327.8	195
BGTZ(X)-07/50	50	49.97	32×406×1/0.07	30.0	6.0	467.0	250
BGTZ(X)-07/75	75	75.05	36×542×1/0.07	35.0	6.0	701.3	325
BGTZ(X)-07/100	100	99.98	36×722×1/0.07	45.0	6.0	934.3	380
		100.07	48×542×1/0.07	55.0	5.0	935.1	380

Customization Upon Request

### BGTZ-10/BGTZX-10 Single Wire Diameter: 0.10mm (AWG 38)

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Measured Cross Section (mm <sup>2</sup> )	Wire Structure Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Width Approx. (mm)	Thickness Approx. (mm)	Weight Approx. (kg/km)	Max. Current Capacity (A, ambient temperature 35°C)
BGTZ(X)-10/1.5	1.5	1.51	24×8×1/0.10	4.0	1.0	14.0	21
BGTZ(X)-10/2.5	2.5	2.64	24×14×1/0.10	6.0	0.8	24.6	30
BGTZ(X)-10/4	4	4.14	24×22×1/0.10	7.0	1.2	38.7	40
BGTZ(X)-10/6	6	6.02	24×32×1/0.10	8.0	1.5	56.3	55
BGTZ(X)-10/10	10	9.98	24×53×1/0.10	12.5	2.0	93.3	85
BGTZ(X)-10/16	16	16.01	24×85×1/0.10	16.0	2.2	149.6	120
BGTZ(X)-10/25	25	25.05	24×133×1/0.10	22.0	3.0	234.1	150
BGTZ(X)-10/35	35	35.04	24×186×1/0.10	25.0	4.0	327.4	195
BGTZ(X)-10/50	50	50.24	32×200×1/0.10	30.0	6.0	469.4	250
BGTZ(X)-10/75	75	75.17	36×266×1/0.10	35.0	6.0	702.4	325
BGTZ(X)-10/100	100	100.04	36×354×1/0.10	45.0	6.0	934.8	380
		100.22	48×266×1/0.10	55.0	5.0	936.6	380

Customization Upon Request

### BGTZ-12/BGTZX-12 Single Wire Diameter: 0.12mm

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Measured Cross Section (mm <sup>2</sup> )	Wire Structure Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Width Approx. (mm)	Thickness Approx. (mm)	Weight Approx. (kg/km)	Max. Current Capacity (A, ambient temperature 35°C)
BGTZ(X)-12/1.5	1.5	1.63	24×6×1/0.12	4.0	0.8	15.2	21
BGTZ(X)-12/2	2	2.17	24×8×1/0.12	5.0	0.8	20.0	25
BGTZ(X)-12/2.5	2.5	2.71	24×10×1/0.12	6.0	0.8	25.3	30
BGTZ(X)-12/4	4	4.07	24×15×1/0.12	7.0	1.2	38.0	40
BGTZ(X)-12/6	6	5.97	24×22×1/0.12	8.0	1.5	55.7	55
		6.51	64×9×1/0.12	19.0	1.0	60.2	55
BGTZ(X)-12/10	10	10.04	24×37×1/0.12	12.5	2.0	93.8	85
BGTZ(X)-12/16	16	16.00	24×59×1/0.12	16.0	2.2	149.5	120
BGTZ(X)-12/25	25	24.96	24×92×1/0.12	22.0	3.0	233.2	150
BGTZ(X)-12/35	35	35.00	24×129×1/0.12	25.0	4.0	327.0	195
		34.70	48×32×2/0.12	26.0	4.5	324.2	195
BGTZ(X)-12/50	50	49.92	32×138×1/0.12	30.0	6.0	466.4	250
BGTZ(X)-12/75	75	75.28	36×185×1/0.12	35.0	6.0	703.5	325
BGTZ(X)-12/100	100	100.11	36×246×1/0.12	45.0	6.0	935.5	380
		100.38	48×185×1/0.12	55.0	5.0	938.0	380

Customization Upon Request



## COPPER BRAIDED WIRES





## BRAIDED COPPER WIRES

### BGTZ-127/BGTZX-127 Single Wire Diameter: 0.127mm (AWG 36)

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Measured Cross Section (mm <sup>2</sup> )	Wire Structure Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Width Approx. (mm)	Thickness Approx. (mm)	Weight Approx. (kg/km)	Max. Current Capacity (A, ambient temperature 35°C)
BGTZ(X)-127/0.5	0.5	0.49	13×3×1/0.127	1.4	0.4	4.6	12.5
BGTZ(X)-127/0.6	0.6	0.61	16×3×1/0.127	2.7	0.5	5.6	13.5
BGTZ(X)-127/1	1	0.99	13×6×1/0.127	5.2	0.25	9.2	18
		1.22	16×6×1/0.127	3.8	0.5	11.3	
BGTZ(X)-127/1.5	1.5	1.62	16×8×1/0.127	4.5	0.5	15.1	21
	1.5	1.52	24×5×1/0.127	4.0	0.8	14.2	
BGTZ(X)-127/2	2	2.13	24×7×1/0.127	5.0	0.8	19.8	25
BGTZ(X)-127/2.5	2.5	2.43	24×8×1/0.127	6.0	0.8	22.7	30
BGTZ(X)-127/3	3	3.04	24×10×1/0.127	6.2	1.0	28.3	34
BGTZ(X)-127/4	4	3.95	24×13×1/0.127	7.0	1.2	36.9	40
		4.86	24×16×1/0.127	7.2	1.4	45.4	
BGTZ(X)-127/5	5	4.86	48×8×1/0.127	14.0	1.1	45.4	45
		6.08	24×20×1/0.127	8.0	1.5	56.7	
BGTZ(X)-127/6	6	6.08	48×10×1/0.127	15.0	1.3	56.7	55
		6.48	64×8×1/0.127	18.0	0.8	59.9	
BGTZ(X)-127/7	7	6.68	48×11×1/0.127	15.0	1.3	62.4	60
BGTZ(X)-127/10	10	10.03	24×33×1/0.127	12.5	2.0	93.7	85
		10.94	48×18×1/0.127	16.0	1.5	102.2	
BGTZ(X)-127/16	16	15.80	24×52×1/0.127	16.0	2.2	147.6	120
BGTZ(X)-127/25	25	24.92	24×82×1/0.127	22.0	3.0	232.8	150
BGTZ(X)-127/35	35	34.95	24×115×1/0.127	25.0	4.0	326.5	195
BGTZ(X)-127/50	50	50.24	32×124×1/0.127	30.0	6.0	469.4	250
BGTZ(X)-127/75	75	75.21	36×165×1/0.127	35.0	6.0	702.8	325
BGTZ(X)-127/100	100	100.28	36×220×1/0.127	45.0	6.0	937.0	380
		99.48	48×165×1/0.127	55.0	5.0	937.0	

Customization Upon Request

### BGTZ-20/BGTZX-20 Single Wire Diameter: 0.20mm (AWG 32)

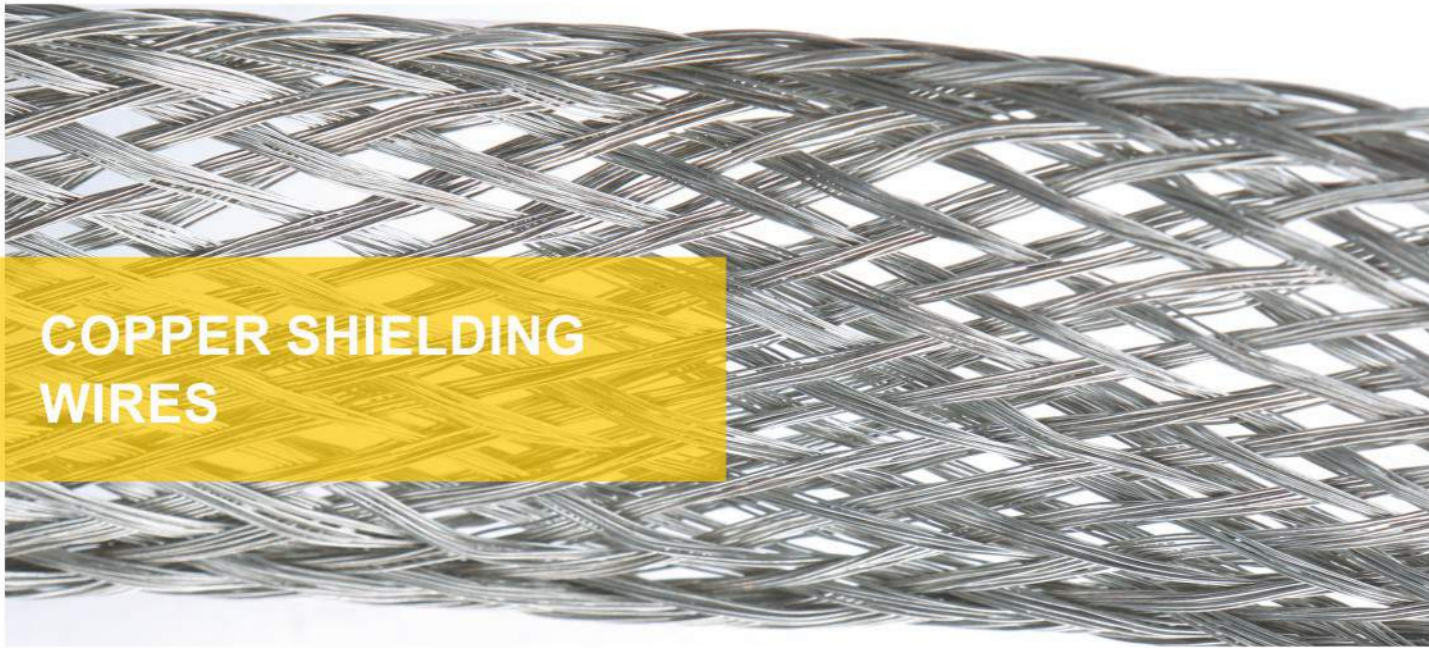
Part No.	Nominal Cross Section (mm <sup>2</sup> )	Measured Cross Section (mm <sup>2</sup> )	Wire Structure Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Width Approx. (mm)	Thickness Approx. (mm)	Weight Approx. (kg/km)	Max. Current Capacity (A, ambient temperature 35°C)
BGTZ(X)-20/0.2	0.2	0.16	13×1×1/0.20	1.4	0.4	1.5	7
BGTZ(X)-20/1.5	1.5	1.51	24×2×1/0.20	3.7	1.0	14.0	21
BGTZ(X)-20/2	2	2.26	24×3×1/0.20	4.8	1.0	21.1	25
BGTZ(X)-20/4	4	3.77	24×5×1/0.20	6.8	1.4	35.2	40
BGTZ(X)-20/5	5	4.52	48×3×1/0.20	11.0	1.0	42.2	45
BGTZ(X)-20/6	6	6.03	48×4×1/0.20	12.0	1.0	56.3	55
		10.55	24×14×1/0.20	12.5	2.0	98.5	
BGTZ(X)-20/10	10	10.55	48×7×1/0.20	16.0	1.5	98.5	85
		15.83	24×21×1/0.20	16.0	2.2	147.8	
BGTZ(X)-20/16	16	24.87	24×33×1/0.20	22.0	3.0	232.3	150
BGTZ(X)-20/35	35	34.67	24×46×1/0.20	25.0	4.0	323.9	195
BGTZ(X)-20/50	50	50.24	32×50×1/0.20	30.0	6.0	469.4	250
BGTZ(X)-20/75	75	74.60	36×66×1/0.20	35.0	6.0	697.1	325
		100.48	40×80×1/0.20	45.0	6.0	938.9	
BGTZ(X)-20/100	100	99.48	48×66×1/0.20	55.0	5.0	929.5	380
		99.48	48×66×1/0.20	55.0	5.0	929.5	

Customization Upon Request



## BRAIDED COPPER WIRES





## COPPER SHIELDING WIRES

### 1.2 Copper Shielding Wires

#### TECHNICAL DATA

Material: annealed Cu-ETP wires, C11000, copper content ≥ 99.95%

Finish: bare, tin plating

Single Wire Diameter:

- 0.19mm
- 0.25mm
- 0.30mm

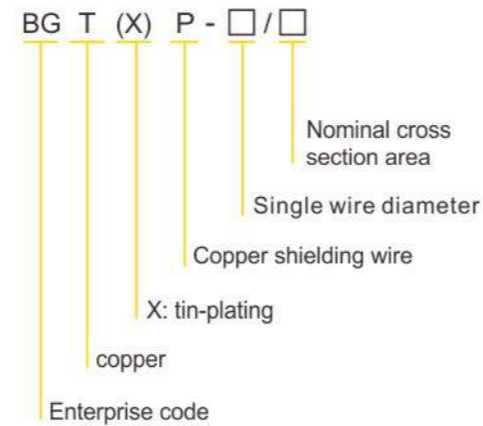
Carrier Number: 48

Cross Sectional Area: 15mm<sup>2</sup> - 50mm<sup>2</sup>

Packing Modes: in rolls, on spools or wooden drums

Notes: Please provide the conductor diameter inside before placing an order.

#### MODEL AND MEANING



Part No.	Nominal Cross Section (mm <sup>2</sup> )	Measured Cross Section (mm <sup>2</sup> )	Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Notes
BGT(X)P-30/15	15	13.56	48×4×1/0.30	Please provide the conductor diameter inside.
BGT(X)P-25/16	16	16.48	48×7×1/0.25	
BGT(X)P-30/20	20	20.35	48×6×1/0.30	
BGT(X)P-19/25	25	24.48	48×18×1/0.19	
BGT(X)P-25/25		25.91	48×11×1/0.25	
BGT(X)P-30/25	23.74	48×7×1/0.30		
		27.13	48×8×1/0.30	
BGT(X)P-30/30	30	30.52	48×9×1/0.30	
BGT(X)P-25/35	35	35.33	48×15×1/0.25	
BGT(X)P-30/40	40	40.69	48×12×1/0.30	
BGT(X)P-25/50	50	49.46	48×21×1/0.25	

Customization Upon Request

### 1.3 Copper Braided Mesh

#### TECHNICAL DATA

Material: annealed Cu-ETP wires, C11000, copper content ≥ 99.95%

Finish: bare, tin plating

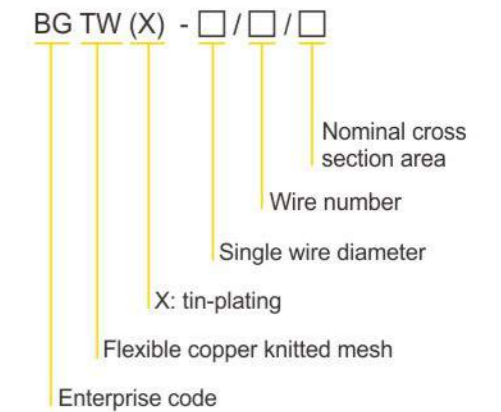
Single Wire Diameter: 0.10mm (AWG 38)  
0.12mm

Width: 25mm, 30mm, 40mm, 50mm, 60mm, 70mm, 80mm, 100mm

Wire number: 1, 2, 3, 4 wires

Packing Modes: in rolls, on spools or wooden drums

#### MODEL AND MEANING



Part No.	Nominal Cross Section (mm <sup>2</sup> )	Wire Structure Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Weight Approx. (kg/km)
BGTW(X)-12/1/25	25	1×0.12/25	12.0
BGTW(X)-12/1/30	30	1×0.12/30	12.5
BGTW(X)-12/1/40	40	1×0.12/40	13.0
BGTW(X)-12/1/50	50	1×0.12/50	15.0
BGTW(X)-12/2/50		2×0.12/50	30.0
BGTW(X)-10/1/60	60	1×0.10/60	17.0
BGTW(X)-12/1/60		1×0.12/60	18.0
BGTW(X)-10/2/60		2×0.10/60	35.0
BGTW(X)-12/2/60		2×0.12/60	36.0
BGTW(X)-10/4/60	70	4×0.10/60	72.0
BGTW(X)-12/1/70		1×0.12/70	20.0
BGTW(X)-12/2/70	80	2×0.12/70	40.0
BGTW(X)-12/1/80		1×0.12/80	21.0
BGTW(X)-12/2/80	100	2×0.12/80	42.0
BGTW(X)-12/1/100		1×0.12/100	23.0
BGTW(X)-12/2/100		2×0.12/100	46.0

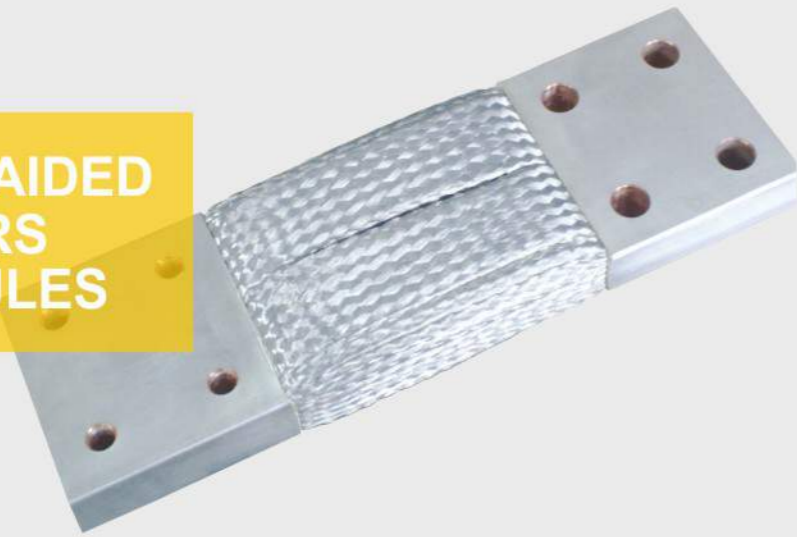
Customization Upon Request



## COPPER BRAIDED MESH



# COPPER BRAIDED CONNECTORS WITH FERRULES



## 1.4 Copper Braided Connector with Ferrules

### CONSTRUCTION AND APPLICATION

The flexible copper braided connectors are made of flexible copper braids with solderless pressed ferrules at each side as contact areas. The flexible copper braids consist of Cu-ETP wires which are braided according to standard JB/T6313.2-2001.

### TECHNICAL DATA

Material: annealed Cu-ETP wires, C11000, copper content ≥ 99.95%

Finish: bare, tin plating, nickel plating, silver plating

Single Wire Diameter:

- 0.05mm (AWG 44)
- 0.07mm (AWG 41)
- 0.10mm (AWG 38)
- 0.12mm
- 0.127mm (AWG 36)
- 0.15mm (standard)
- 0.20mm (AWG 32)
- 0.25mm
- 0.254mm (AWG 30)

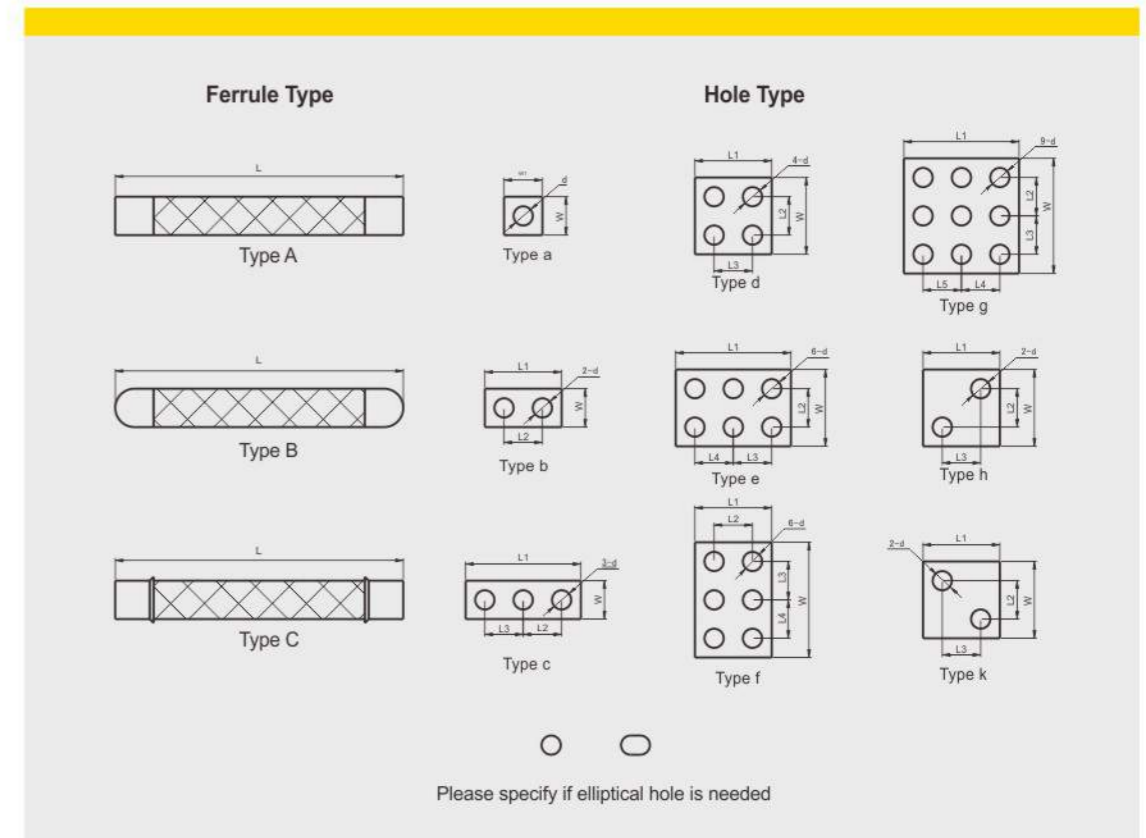
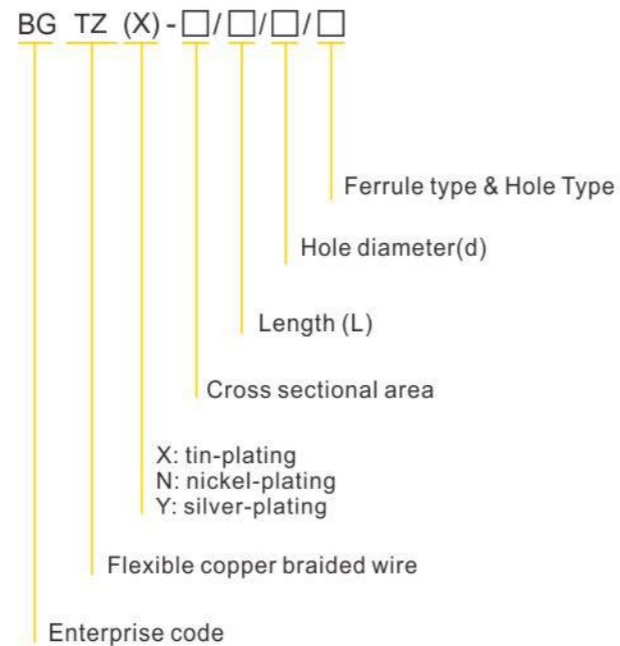
Cross Sectional Area: 1.5mm<sup>2</sup> - 6000mm<sup>2</sup>

When you place an order, please specify:

- Cross sectional area
- Length (L)
- Ferrule Type & Hole Type
- Hole Diameter (d)
- Single Wire Diameter (default 0.15mm)

### Customization Upon Request

### MODEL AND MEANING



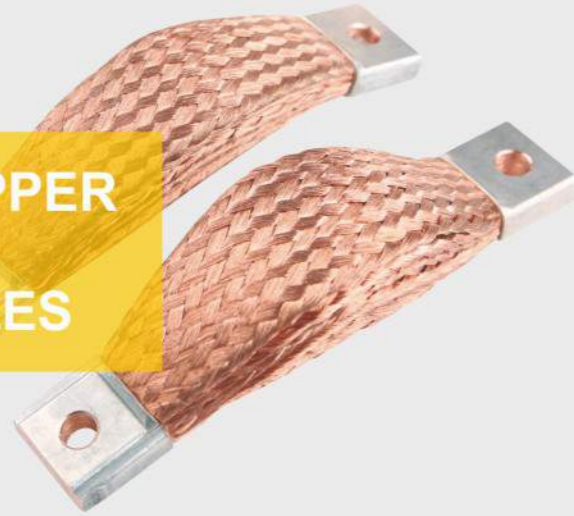
### Cross sectional area: 1.5mm<sup>2</sup> - 70mm<sup>2</sup>

Part No.	Cross Section (mm <sup>2</sup> )	W/W1 Approx. (mm)	Thickness Approx. (mm)	L (mm)	d(mm)
BGTZ(X)-1.5/L/d/Aa	1.5	4	1.6	According to your request	According to your request
BGTZ(X)-2/L/d/Aa	2	5	1.6		
BGTZ(X)-2.5/L/d/Aa	2.5	6	1.6		
BGTZ(X)-4/L/d/Aa	4	7	1.8		
BGTZ(X)-6/L/d/Aa	6	10	1.8		
BGTZ(X)-8/L/d/Aa	8	12	1.8		
BGTZ(X)-10/L/d/Aa	10	15	1.8		
BGTZ(X)-12/L/d/Aa	12	20	1.9		
BGTZ(X)-14/L/d/Aa	14	20	2.1		
BGTZ(X)-16/L/d/Aa	16	19	2.2		
BGTZ(X)-20/L/d/Aa	20	20	2.4		
		25	2.6		
BGTZ(X)-25/L/d/Aa	25	20	2.7		
		25	2.8		
BGTZ(X)-35/L/d/Aa	35	25	3.3		
		20	4.2		
		25	4.0		
		30	4.0		
BGTZ(X)-50/L/d/Aa	50	40	3.5		
		45	4.0		
		20	7.0		
BGTZ(X)-70/L/d/Aa	70	25	5.7		
		30	5.5		
		30	5.5		

Customization Upon Request



## BRAIDED COPPER CONNECTOR WITH FERRULES



Cross sectional area: 95mm<sup>2</sup> - 200mm<sup>2</sup>

Part No.	Cross Section (mm <sup>2</sup> )	W/W1 Approx. (mm)	Thickness Approx. (mm)	L (mm)	d(mm)
BGTZ(X)-1.5/L/d/Aa	95	40	5.3	According to your request	According to your request
BGTZ(X)-100/L/d/Aa	100	20	8.5		
		25	7.0		
		30	6.5		
		40	5.4		
		45	5.5		
BGTZ(X)-120/L/d/Aa	120	50	5.4		
		25	8.5		
		30	7.3		
BGTZ(X)-150/L/d/Aa	150	45	6.3		
		50	5.9		
		30	8.6		
		40	6.9		
BGTZ(X)-185/L/d/Aa	185	45	7.1		
		50	6.6		
		30	10.0		
BGTZ(X)-200/L/d/Aa	200	40	8.0		
		50	7.5		
		30	10.6		
		40	8.4		
		50	7.8		
		60	7.0		
		75	6.7		
		100	7.0		

Customization Upon Request

Cross sectional area: 250mm<sup>2</sup> - 600mm<sup>2</sup>

Part No.	Cross Section (mm <sup>2</sup> )	W/W1 Approx. (mm)	Thickness Approx. (mm)	L (mm)	d(mm)
BGTZ(X)-250/L/d/Aa	250	30	12.7	According to your request	According to your request
		40	10.0		
		45	9.8		
		60	8.0		
		50	9.0		
		75	8.0		
		100	7.0		
BGTZ(X)-300/L/d/Aa	300	30	14.7		
		40	11.5		
		45	11.1		
		50	10.2		
		60	9.0		
		75	8.0		
		80	8.0		
BGTZ(X)-400/L/d/Aa	400	100	7.8		
		40	16.5		
		45	16.0		
		50	13.0		
		75	10.6		
		80	9.5		
		100	10.0		
BGTZ(X)-500/L/d/Aa	500	120	9.0		
		150	9.0		
		40	18.9		
		45	17.0		
		50	15.5		
		60	14.0		
		75	14.0		
BGTZ(X)-600/L/d/Aa	600	80	13.5		
		100	11.2		
		120	10.2		
		150	11.0		
		40	22.0		
		45	19.8		
		50	18.0		
60	16.5				
		75	15.0		
		80	15.0		
		100	12.0		
		120	11.5		
		150	12.0		

Customization Upon Request



## BRAIDED COPPER CONNECTOR WITH FERRULES



### Cross sectional area: 700mm<sup>2</sup>- 1000mm<sup>2</sup>

Part No.	Cross Section (mm <sup>2</sup> )	W/W1 Approx. (mm)	Thickness Approx. (mm)	L (mm)	d(mm)
BGTZ(X)-700/L/d/Aa	700	40	25.3	According to your request	According to your request
		45	22.6		
		50	20.5		
		75	17.5		
		100	13.5		
		120	13.2		
BGTZ(X)-800/L/d/Aa	800	150	11.7		
		40	28.4		
		45	25.4		
		50	23.0		
		60	20.8		
		75	17.3		
BGTZ(X)-1000/L/d/Aa	1000	80	16.4		
		100	14.5		
		120	14.0		
		150	12.5		
		60	25.0		
		75	20.5		
		80	20.0		
		100	17.4		
	120	16.0			
	150	16.0			
	200	11.0			

Customization Upon Request

### Cross sectional area: 1200mm<sup>2</sup>- 6000mm<sup>2</sup>

Part No.	Cross Section (mm <sup>2</sup> )	W/W1 Approx. (mm)	Thickness Approx. (mm)	L (mm)	d(mm)
BGTZ(X)-1200/L/d/Aa	1200	75	24.2	According to your request	According to your request
		80	18.0		
		100	19.8		
		120	19.0		
		150	18.0		
		200	12.0		
BGTZ(X)-1300/L/d/Aa	1300	100	21.1		
		120	19.4		
		150	19.0		
		200	13.0		
BGTZ(X)-1400/L/d/Aa	1400	100	24.0		
		120	21.0		
		150	20.0		
		200	13.5		
BGTZ(X)-1500/L/d/Aa	1500	100	24.5		
		120	22.2		
		150	21.0		
		200	14.0		
BGTZ(X)-1600/L/d/Aa	1600	120	23.5		
		150	22.0		
		200	14.5		
BGTZ(X)-1800/L/d/Aa	1800	120	27.5		
		150	24.0		
		200	16.0		
BGTZ(X)-2000/L/d/Aa	2000	120	31.0		
		150	26.0		
BGTZ(X)-2500/L/d/Aa	2500	200	17.5		
		120	38.5		
BGTZ(X)-3000/L/d/Aa	3000	150	35.0		
		200	23.0		
BGTZ(X)-4000/L/d/Aa	4000	120	46.0		
		150	38.5		
BGTZ(X)-4500/L/d/Aa	4500	200	24.0		
		120	60.0		
BGTZ(X)-5000/L/d/Aa	5000	150	49.0		
		200	30.0		
BGTZ(X)-6000/L/d/Aa	6000	120	66.0		
		150	54.0		
		200	32.0		
		120	74.0		
		150	59.0		
		200	35.0		
		120	86.0		
		150	70.0		
		200	40.0		

Customization Upon Request



# COPPER BRAIDED CONNECTORS WITH LUGS



## 1.5 Copper Braided Connectors with Lugs

### CONSTRUCTION AND APPLICATION

The flexible copper braided connectors are made of flexible copper braids with solderless pressed lugs at each side as contact areas. Normally the connectors of smaller cross sectional area adopts this connecting type. And please refer to Page 62-70, Part 4.4 for more lug type information.

The flexible copper braids consist of Cu-ETP wires which are braided according to standard JB/T6313.2-2011.

### TECHNICAL DATA

Material: annealed Cu-ETP wires, C11000, copper content ≥ 99.95%

Finish: bare, tin plating, nickel plating, silver plating

- Single Wire Diameter:
- 0.05mm (AWG 44)
  - 0.07mm (AWG 41)
  - 0.10mm (AWG 38)
  - 0.12mm
  - 0.127mm (AWG 36)
  - 0.15mm (standard)
  - 0.20mm (AWG 32)
  - 0.25mm
  - 0.254mm (AWG 30)

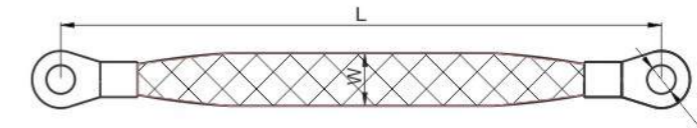
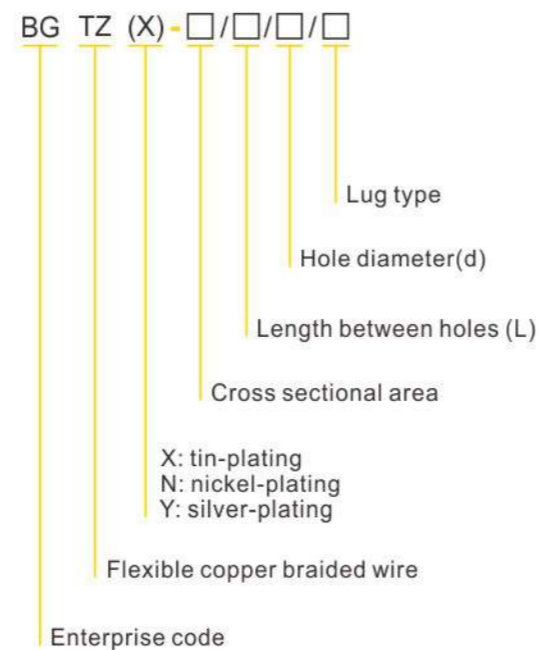
Cross Sectional Area: 1.5mm<sup>2</sup> - 500mm<sup>2</sup>

When you place an order, please specify:

- Cross sectional area
- Length (L)
- Lug Type (See Page 62-70, Part 4.4) for more lug details
- Hole Diameter (d)
- Single Wire Diameter (default 0.15mm)

### Customization Upon Request

### MODEL AND MEANING



SC



RNB



JG



DT



OT



UT

### Copper Braided Connectors with Lugs

Part No.	Cross Section (mm <sup>2</sup> )	W Approx. (mm)	L (mm)	d (mm)
BGTZ(X)-1.5/L/d/SC	1.5	4.0	According to your request	According to your request
BGTZ(X)-2/L/d/SC	2	5.0		
BGTZ(X)-2.5/L/d/SC	2.5	6.0		
BGTZ(X)-4/L/d/SC	4	7.0		
BGTZ(X)-6/L/d/SC	6	10.0		
BGTZ(X)-8/L/d/SC	8	12.0		
BGTZ(X)-10/L/d/SC	10	15.0		
BGTZ(X)-12/L/d/SC	12	20.0		
BGTZ(X)-14/L/d/SC	14	20.0		
BGTZ(X)-16/L/d/SC	16	22.0		
BGTZ(X)-20/L/d/SC	20	20.0		
		25.0		
BGTZ(X)-25/L/d/SC	25	22.0		
		30.0		
BGTZ(X)-35/L/d/SC	35	23.0		
		38.0		
BGTZ(X)-50/L/d/SC	50	23.0		
		32.0		
		50.0		
BGTZ(X)-70/L/d/SC	70	32.0		
		40.0		
		41.0		
BGTZ(X)-95/L/d/SC	95	34.0		
		33.0		
BGTZ(X)-100/L/d/SC	100	40.0		
		51.0		
BGTZ(X)-120/L/d/SC	120	34.0		

Customization Upon Request



## Copper Braided Connectors with Lugs

Part No.	Cross Section (mm <sup>2</sup> )	W Approx. (mm)	L (mm)	d(mm)
BGTZ(X)-150/L/d/SC	150	35.0	According to your request	According to your request
		42.0		
		52.0		
BGTZ(X)-180/L/d/SC	180	36.0		
		53.0		
		37.0		
BGTZ(X)-200/L/d/SC	200	53.0		
		93.0		
		39.0		
BGTZ(X)-250/L/d/SC	250	54.0		
		41.0		
		55.0		
BGTZ(X)-300/L/d/SC	300	94.0		
		45.0		
		57.0		
BGTZ(X)-400/L/d/SC	400	95.0		
		49.0		
		59.0		
BGTZ(X)-500/L/d/SC	500	96.0		

Customization Upon Request



## COPPER BRAIDED CONNECTORS WITH LUGS



## COPPER BRAIDED CONNECTORS WITH WELDED ENDS

### 1.6 Copper Braided Connectors with Welded Ends

#### CONSTRUCTION AND APPLICATION

The flexible copper braided connectors are made of flexible copper braids with welded ends at each side as contact areas. The ends are hot-dip tinned. This type of copper braided connectors are normally used as earthing straps.

The flexible copper braids consist of Cu-ETP wires which are braided according to standard JB/T6313.2-2011.

#### TECHNICAL DATA

Material: annealed Cu-ETP wires, C11000, copper content ≥ 99.95%

Finish: bare, tin plating

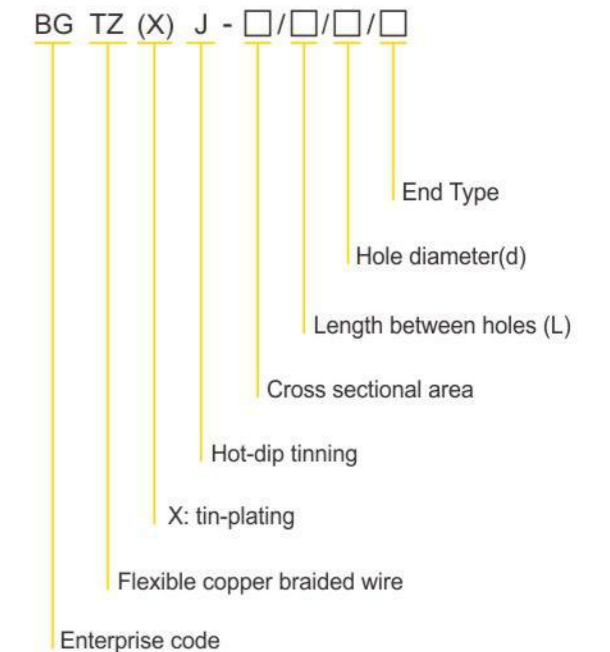
Single Wire Diameter: 0.05mm (AWG 44)  
 0.07mm (AWG 41)  
 0.10mm (AWG 38)  
 0.12mm  
 0.127mm (AWG 36)  
 0.15mm (standard)  
 0.20mm (AWG 32)  
 0.25mm  
 0.254mm (AWG 30)

Cross Sectional Area: 1.5mm<sup>2</sup> - 100mm<sup>2</sup>

When you place an order, please specify:

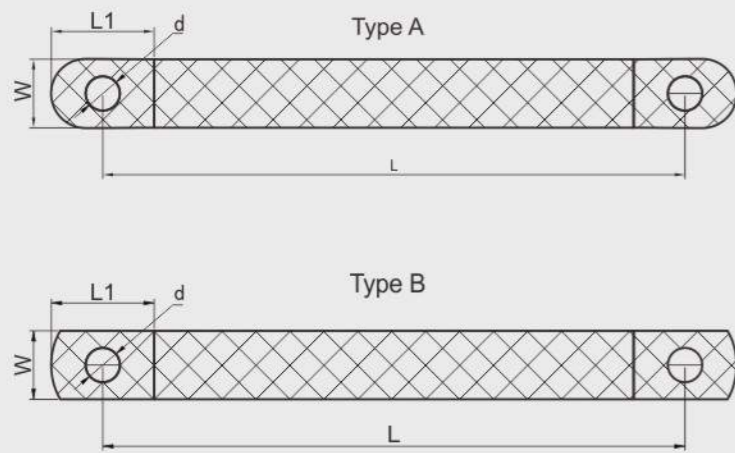
- Cross Sectional Area
- Length between holes (L)
- Hole Diameter (d)
- Single Wire Diameter (default 0.15mm)
- End Type

#### MODEL AND MEANING



Customization Upon Request





### Copper Braided Connectors with Welded Ends

Part No.	Cross Section (mm <sup>2</sup> )	W Approx. (mm)	L1(mm)	L (mm)	d(mm)
BGTZ(X)J-6/L/d/A	6	13.0	18	6.5	100
BGTZ(X)J-10/L/d/A	10	13.0	18	6.5	120
BGTZ(X)J-16/L/d/A	16	15.0	18	6.5, 8.5	150
BGTZ(X)J-25/L/d/A	25	23.0	28	6.5, 8.5, 10.5, 12.5	200
BGTZ(X)J-30/L/d/A	30	23.0	28	6.5, 8.5, 10.5, 12.5	225
BGTZ(X)J-35/L/d/A	35	23.0	28	6.5, 8.5, 10.5, 12.5, 16.5, 18.5	250
		40.0	42.5	6.5, 8.5, 10.5, 12.5, 16.5, 18.5, 22.5, 25.5	300
BGTZ(X)J-50/L/d/A	50	28.0	33	6.5, 8.5, 10.5, 12.5, 16.5, 18.5	400
BGTZ(X)J-70/L/d/A	70	28.0	33	6.5, 8.5, 10.5, 12.5, 16.5, 18.5	500
		40.0	42.5	6.5, 8.5, 10.5, 12.5, 16.5, 18.5, 22.5, 25.5	600
BGTZ(X)J-100/L/d/A	100	40.0	42.5	6.5, 8.5, 10.5, 12.5, 16.5, 18.5, 22.5, 25.5	800
		50.0	55	6.5, 8.5, 10.5, 12.5, 16.5, 18.5, 22.5, 25.5, 30.5	1000

Customization Upon Request

### COPPER BRAIDED CONNECTORS WITH WELDED ENDS



### 1.7 Copper Braided Connectors with Insulation

#### CONSTRUCTION AND APPLICATION

Our copper braided connectors can be insulated with various insulating materials in different colors based on the specific requirements, like insulation class, temperature grade, voltage class and flame retardant rating, etc.

We can provide the insulating materials as follows:

- PVC heat-shrinkable tube
- PVC cold-shrinkable tube
- PVC non-shrinkable tube
- Extruded PVC tube
- Extruded TPE tube
- Glass fiber tube
- Silicone rubber tube
- Silicone rubber glass fiber tube
- Silicone rubber heat-shrinkable tube



Customization Upon Request



## CUSTOMIZED PRODUCT SHOW (BRAIDED COPPER CONNECTORS)



### 1.8 Customized Product Show (Braided Copper Connectors)

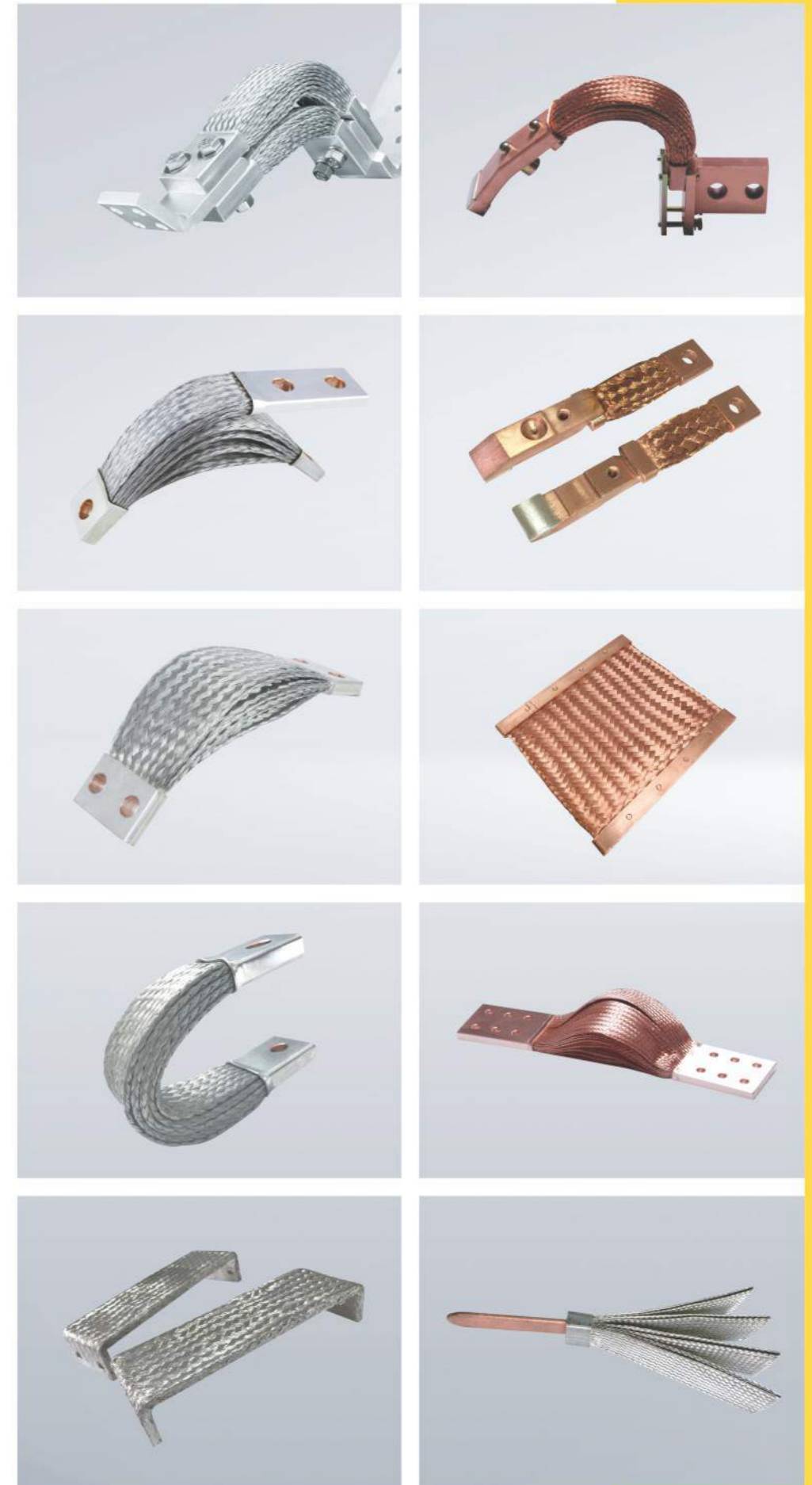
#### CONSTRUCTION AND APPLICATION

Besides the braided copper connectors, we can manufacture customized ones in special shapes and sizes. BRIDGOLD owns a professional team of engineers and technician, who can provide you with a professional solution according to your requirements and product application.

Our goal is to create a professional customization-oriented enterprise of flexible copper connectors.



Customization Upon Request







## Part 2

### STRANDED COPPER WIRES AND STRANDED COPPER CONNECTORS

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- 2.1 BGTJR(X) Type Flexible Copper Stranded Wires
  - 2.1.1 BGTJR(X) 1 Flexible Copper Stranded Wires  
Single Wire Diameter: 0.25mm-1.05mm (AWG30-AWG18)
  - 2.1.2 BGTJR(X) 2 Flexible Copper Stranded Wires  
Single Wire Diameter: 0.20mm (AWG32)
  - 2.1.3 BGTJR(X) 3 Flexible Copper Stranded Wires  
Single Wire Diameter: 0.15mm
- 2.2 BGTS(X) and BGTSR(X) Type Flexible Copper Stranded Wires for Electric Brush
  - 2.2.1 BGTS(X) Type Flexible Copper Stranded Wires for Electric Brush  
Round Type: Single Wire Diameter: 0.12mm, 0.10mm (AWG38 )
  - 2.2.2 BGTSR(X) Type Flexible Copper Stranded Wires for Electric Brush  
Round Type: Single Wire Diameter: 0.07mm(AWG41), 0.05mm (AWG44)
  - 2.2.3 BGTSR(X)F Type Flexible Copper Stranded Wires for Electric Brush  
Square Type: Single Wire Diameter: 0.05mm (AWG44)
- 2.3 BGTJRV(X) Type Insulated Flexible Copper Stranded Wires
- 2.4 BGJT(X) Type Hard Drawn Copper Stranded Wires
- 2.5 Copper Stranded Connectors with Ferrules
  - 2.5.1 Cross Sectional Area: 1.5mm<sup>2</sup>-95mm<sup>2</sup>
  - 2.5.2 Cross Sectional Area: 100mm<sup>2</sup>-500mm<sup>2</sup>
- 2.6 Copper Stranded Connectors with Lugs
- 2.7 Copper Stranded Connectors with Insulation
- 2.8 Customized Product Show (Stranded Copper Connectors)



## STRANDED COPPER WIRES

### 2.1 BGTJR(X) Type Flexible Copper Stranded Wires

#### CONSTRUCTION AND APPLICATION

BGTJR(X) type flexible copper stranded wires can be used for flexible conduction and grounding connection of electrical installation, switch gear, electrical furnace, storage battery, etc.

BGTJR(X) flexible stranded copper wires consist of Cu-ETP wires which are stranded according to standard GB/T12970.2-2009.

#### TECHNICAL DATA

Material: annealed Cu-ETP wires, C11000, copper content  $\geq 99.95\%$

Finish: bare, tin plating

Cross Sectional Area:  $1.5\text{mm}^2 - 2000\text{mm}^2$

Packing Modes: in rolls, on spools or wooden drums

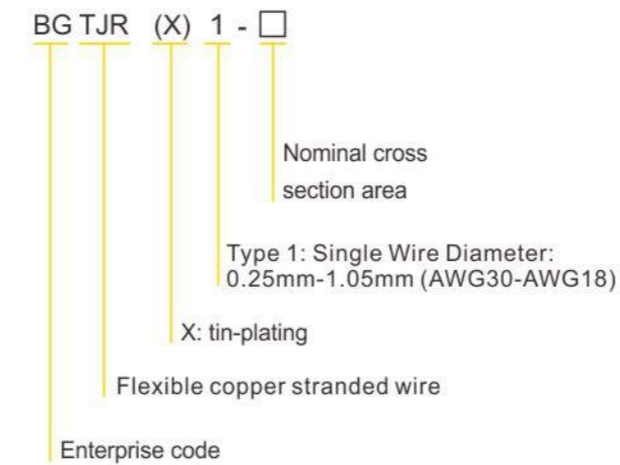
#### TYPE AND SPECIFICATION

Type	Single Wire Diameter (mm)	Single Wire Diameter (AWG)
BGTJR(X)1	0.25mm-1.05mm	AWG30-AWG18
BGTJR(X)2	0.20mm	AWG32
BGTJR(X)3	0.15mm	-

Customization Upon Request

### 2.1.1 BGTJR(X) 1 Flexible Copper Stranded Wires

#### MODEL AND MEANING



#### Single Wire Diameter: 0.25mm-1.05mm (AWG30-AWG18)

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Calculating Cross Section (mm <sup>2</sup> )	Structure		Calculating Outside diameter (mm)	Max. DC Resistance at 20°C Ω/km BGTJR 1	Calculating weight (kg/km)
			Total Wire Number	Strands×Wire Number Per Strand/Single Wire Diameter (mm)			
BGTJR(X) 1-1.6	1.60	1.57	32	32/0.25	1.63	11.5	14.7
BGTJR(X) 1-2	2.00	1.96	40	40/0.25	1.82	9.24	18.3
BGTJR(X) 1-2.5	2.5	2.41	49	7×7/0.25	2.25	7.58	22.7
BGTJR 1-4	4.0	3.94	49	7×7/0.32	2.88	4.64	37.1
BGTJR 1-6.3	6.3	6.16	49	7×7/0.40	3.60	2.97	58.0
BGTJR 1-10	10	10.01	49	7×7/0.51	4.59	1.83	94.3
BGTJR 1-16	16	15.84	84	7×12/0.49	6.17	1.16	150
BGTJR 1-25	25	25.08	133	19×7/0.49	7.35	0.736	239
BGTJR 1-35	35	35.14	133	19×7/0.58	8.70	0.525	334
BGTJR 1-40	40	40.15	133	19×7/0.62	9.30	0.459	382
BGTJR 1-50	50	48.30	133	19×7/0.68	10.20	0.382	459
BGTJR 1-63	63	62.72	189	27×7/0.65	12.00	0.294	597
BGTJR 1-70	70	68.64	189	27×7/0.68	12.53	0.269	653
BGTJR 1-80	80	78.20	259	37×7/0.62	13.02	0.236	744
BGTJR 1-95	95	94.06	259	37×7/0.68	14.28	0.196	895
BGTJR 1-100	100	99.68	259	37×7/0.70	14.70	0.185	948
BGTJR 1-120	120	117.67	324	27×12/0.68	17.39	0.157	1119
BGTJR 1-125	125	124.69	324	27×12/0.70	17.90	0.148	1186
BGTJR 1-160	160	162.86	324	27×12/0.80	20.20	0.113	1549
BGTJR 1-185	185	183.85	324	27×12/0.85	21.74	0.100	1749
BGTJR 1-200	200	196.15	444	37×12/0.75	21.80	0.0940	1866
BGTJR 1-250	250	251.95	444	37×12/0.85	24.72	0.0732	2397
BGTJR 1-315	315	310.58	703	37×19/0.75	26.25	0.0596	2954
BGTJR 1-400	400	398.92	703	37×19/0.85	29.75	0.0462	3795
BGTJR 1-500	500	498.30	703	37×19/0.95	33.25	0.0370	4740
BGTJR 1-630	630	627.1	1159	61×19/0.83	37.35	0.0294	5965
BGTJR 1-800	800	804.3	1159	61×19/0.94	42.30	0.0229	7651
BGTJR 1-1000	1000	1003.6	1159	61×19/1.05	47.25	0.0184	9547

Customization Upon Request



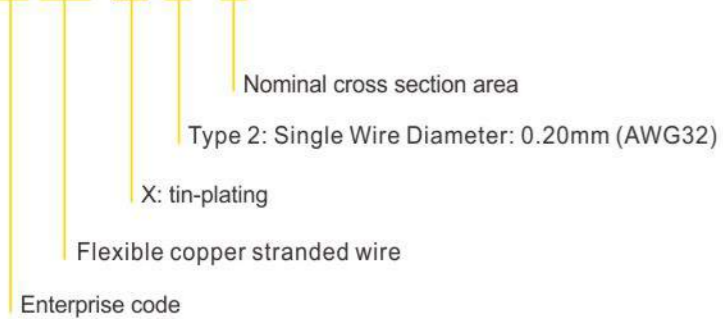


## FLEXIBLE COPPER STRANDED WIRES

### 2.1.2 BGTJR(X) 2 Flexible Copper Stranded Wires

#### MODEL AND MEANING

BGTJR (X) 2 - □



#### Single Wire Diameter: 0.20mm (AWG32)

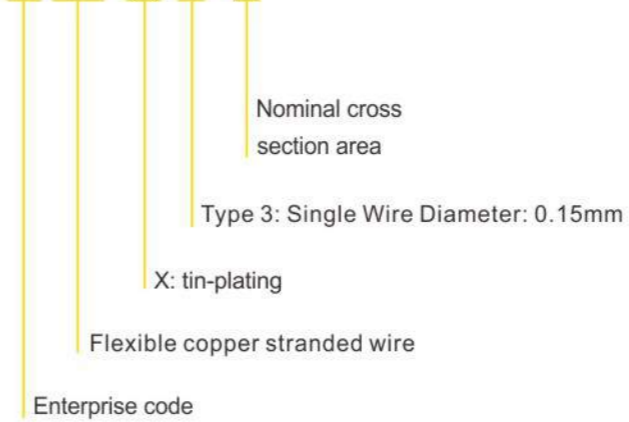
Part No.	Nominal Cross Section (mm <sup>2</sup> )	Calculating Cross Section (mm <sup>2</sup> )	Structure		Calculating Outside diameter (mm)	Max. DC Resistance at 20°C Ω/km		Calculating weight (kg/km)
			Total Wire Number	Strands×Wire Number Per Strand/Single Wire Diameter (mm)		BGTJR 2	BGTJR X 2	
BGTJR(X) 2-1	1.0	1.01	32	32/0.20	1.30	17.9	18.2	9.43
BGTJR(X) 2-4	4.0	3.96	126	7×18/0.20	3.00	4.62	4.82	37.3
BGTJR(X) 2-6.3	6.3	6.16	196	7×28/0.20	3.72	2.97	3.10	58.0
BGTJR(X) 2-10	10	9.90	315	7×45/0.20	4.62	1.85	1.93	93.3
BGTJR(X) 2-16	16	15.83	504	12×42/0.20	6.18	1.16	1.23	150
BGTJR(X) 2-25	25	25.07	798	19×42/0.20	7.45	0.736	0.781	238
BGTJR(X) 2-35	35	35.41	1127	7×7×23/0.20	10.57	0.521	0.545	337
BGTJR(X) 2-40	40	40.02	1274	7×7×26/0.20	10.62	0.461	0.482	381
BGTJR(X) 2-50	50	49.26	1568	7×7×32/0.20	11.70	0.375	0.392	469
BGTJR(X) 2-63	63	63.11	2009	7×7×41/0.20	13.32	0.292	0.305	600

Customization Upon Request

### 2.1.3 BGTJR(X) 3 Flexible Copper Stranded Wires

#### MODEL AND MEANING

BGTJR (X) 3 - □



#### Single Wire Diameter: 0.15mm

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Calculating Cross Section (mm <sup>2</sup> )	Structure		Calculating Outside diameter (mm)	Max. DC Resistance at 20°C Ω/km		Calculating weight (kg/km)
			Total Wire Number	Strands×Wire Number Per Strand/Single Wire Diameter (mm)		BGTJR 3	BGTJR X 3	
BGTJR(X) 3-1.5	1.5	1.48	84	3×28/0.15	1.1	11.5	11.7	13.6
BGTJR(X) 3-2	2	2.01	114	3×38/0.15	1.9	9.24	9.39	18.7
BGTJR(X) 3-2.5	2.5	2.54	144	3×48/0.15	2.2	7.40	7.73	23.4
BGTJR(X) 3-4	4	4.02	228	4×57/0.15	2.8	4.62	4.82	37.4
BGTJR(X) 3-5	5	5.03	285	5×57/0.15	3.0	3.69	3.86	46.3
BGTJR(X) 3-6	6	6.05	343	7×49/0.15	3.5	2.97	3.10	55.6
BGTJR(X) 3-8	8	8.03	455	7×65/0.15	4.0	2.33	2.44	74.0
BGTJR(X) 3-10	10	10.01	567	7×81/0.15	4.6	1.85	1.93	92.1
BGTJR(X) 3-12	12	11.98	679	7×97/0.15	5.0	1.48	1.55	111.0
BGTJR(X) 3-16	16	15.94	903	7×3×43/0.15	6.0	1.16	1.21	151.0
BGTJR(X) 3-20	20	20.02	1134	7×3×54/0.15	6.8	0.925	0.965	191.5
BGTJR(X) 3-25	25	25.21	1428	7×3×68/0.15	7.7	0.736	0.769	242.5
BGTJR(X) 3-35	35	34.85	1974	7×3×94/0.15	9.0	0.535	0.559	335.9
BGTJR(X) 3-50	50	49.57	2888	12×3×78/0.15	11.0	0.374	0.391	483.1
BGTJR(X) 3-70	70	69.46	3933	19×3×69/0.15	13.2	0.262	0.274	678.4
BGTJR(X) 3-95	95	94.59	5358	19×3×94/0.15	15.5	0.196	0.205	934.4
BGTJR(X) 3-100	100	99.57	5640	20×3×94/0.15	15.8	0.183	0.191	979.9
BGTJR(X) 3-120	120	120.76	6840	19×4×90/0.15	16.8	0.153	0.160	1178.8
BGTJR(X) 3-150	150	150.15	8550	19×5×90/0.15	18.5	0.124	0.130	1449.3
BGTJR(X) 3-185	185	185.10	10488	18×7×81+3×94/0.15	21.5	0.0997	0.1040	1801.1
BGTJR(X) 3-200	200	200.20	11340	20×7×81/0.15	22.5	0.0940	0.0982	1945.4
BGTJR(X) 3-250	250	249.70	14147	20×7×97+7×81/0.15	25.0	0.0735	0.0768	2426.9
BGTJR(X) 3-315	315	310.41	17575	37×19×25/0.15	31.0	0.0592	0.0619	2897.6
BGTJR(X) 3-400	400	397.33	22496	37×19×32/0.15	34.0	0.0470	0.0491	3708.9
BGTJR(X) 3-500	500	496.66	28120	37×19×40/0.15	38.0	0.0366	0.0382	4636.1

Customization Upon Request



## STRANDED COPPER WIRES

### 2.2 BGTS(X) and BGTSR(X) Type Flexible Copper Stranded Wires for Electric Brush

#### CONSTRUCTION AND APPLICATION

BGTS(X) and BGTSR type flexible copper stranded wires for electric brush consists of annealed highly flexible Cu-ETP copper wires, and can be used for flexible connection of motor, electrical apparatus and instrument wiring, specially for AC current or high-frequency current.

Standard: GB/T12970.4-2009.

#### TECHNICAL DATA

Material: annealed Cu-ETP wires, C11000, copper content ≥ 99.95%

Finish: bare, tin plating

Packing Modes: in rolls, on spools or wooden drums

#### TYPE AND SPECIFICATION

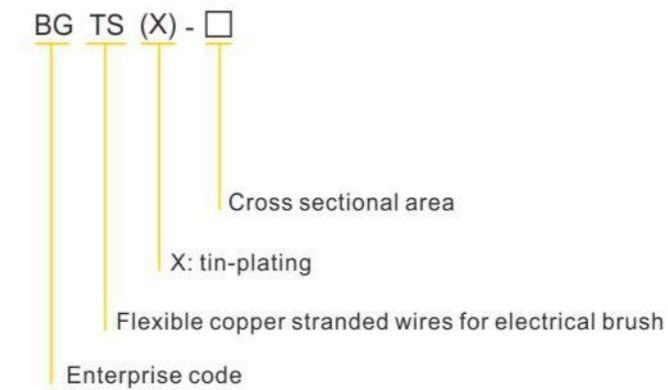
Type	Single Wire Diameter (mm)	Elongation, not less than
BGTS	0.10mm (AWG38), 0.12mm	18%
BGTSX	0.10mm (AWG38), 0.12mm	15%
BGTSR(X)	0.05mm (AWG44), 0.07mm(AWG41)	15%

Customization Upon Request

### 2.2.1 BGTS(X) Type Flexible Copper Stranded Wires for Electric Brush

Single Wire Diameter: 0.12mm, 0.10mm (AWG38)

#### MODEL AND MEANING



#### Single Wire Diameter: 0.12mm

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Calculating Cross Section (mm <sup>2</sup> )	Structure		Calculating Outside diameter (mm)	Max. DC Resistance at 20°C Ω/km		Calculating weight (kg/km)
			Total Wire Number	Strands×Wire Number Per Strand/Single Wire Diameter (mm)		BGTS	BGTSX	
BGTS(X)-6.3	6.3	6.24	552	12×46/0.12	4.3	2.94	3.07	59.1
BGTS(X)-8	8.0	7.87	696	12×58/0.12	4.8	2.33	2.44	74.9
BGTS(X)-10	10	10.04	888	12×74/0.12	5.3	1.83	1.91	95.1
BGTS(X)-12.5	12.5	12.46	1102	19×58/0.12	5.9	1.48	1.55	118.5
BGTS(X)-16	16	15.90	1406	19×74/0.12	6.7	1.16	1.21	151.2

Customization Upon Request

#### Single Wire Diameter: 0.10mm (AWG38 )

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Calculating Cross Section (mm <sup>2</sup> )	Structure		Calculating Outside diameter (mm)	Max. DC Resistance at 20°C Ω/km		Calculating weight (kg/km)
			Total Wire Number	Strands×Wire Number Per Strand/Single Wire Diameter (mm)		BGTS	BGTSX	
BGTS(X)-1	1	0.99	126	7×18/0.10	1.4	18.5	19.3	9.5
BGTS(X)-1.4	1.4	1.37	175	7×25/0.10	1.7	13.2	13.7	12.5
BGTS(X)-1.5	1.5	1.48	189	7×27/0.10	1.8	11.9	12.7	14.0
BGTS(X)-1.8	1.8	1.75	224	7×32/0.10	2.0	10.2	10.7	16.5
BGTS(X)-2	2	1.98	252	7×36/0.10	2.2	9.23	9.65	19.5
BGTS(X)-2.5	2.5	2.53	322	7×46/0.10	2.4	7.39	7.72	25.0
BGTS(X)-3	3	2.97	378	7×54/0.10	2.7	6.16	6.43	29.5
BGTS(X)-4	4	3.96	504	7×72/0.10	2.8	4.62	4.83	38.0
BGTS(X)-5	5	4.94	630	7×90/0.10	3.2	3.69	3.86	47.6
BGTS(X)-6	6	5.93	756	12×63/0.10	3.7	3.01	3.23	58.5
BGTS(X)-8	8	7.91	1008	12×84/0.10	4.2	2.33	2.44	75.5
BGTS(X)-9	9	8.95	1140	12×95/0.10	4.4	2.05	2.15	87.0
BGTS(X)-10	10	8.89	1260	12×105/0.10	4.8	1.83	1.91	97.2
BGTS(X)-12	12	11.97	1524	12×127/0.10	5.4	1.50	1.62	117.0
BGTS(X)-16	16	15.90	2025	15×135/0.10	6.2	1.16	1.21	156.0

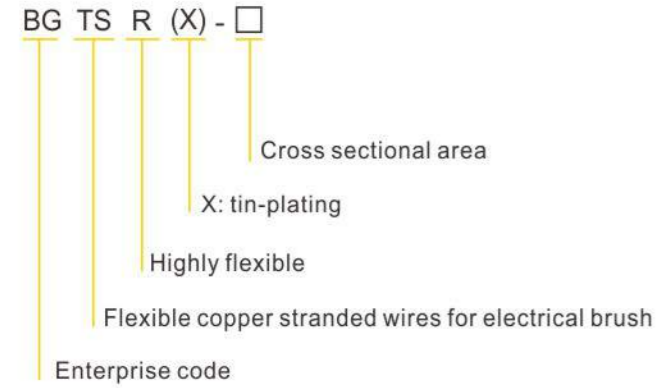
Customization Upon Request



## 2.2.2 BGTSR(X) Type Flexible Copper Stranded Wires for Electric Brush

Round Type - Single Wire Diameter: 0.07mm (AWG41), 0.05mm (AWG44)

### MODEL AND MEANING



Round Type - Single Wire Diameter: 0.07mm (AWG41)

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Calculating Cross Section (mm <sup>2</sup> )	Structure		Calculating Outside diameter (mm)	Max. DC Resistance at 20°C Ω/km		Calculating weight (kg/km)
			Total Wire Number	Strands×Wire Number Per Strand/Single Wire Diameter (mm)		BGTSR	BGTSRX	
BGTSR(X)-2	2	1.93	504	7×72/0.07	2.2	9.16	9.65	18.3
		1.93	504	7×3×24/0.07	2.2	9.16	9.65	18.6
BGTSR(X)-3.5	3.5	3.47	903	7×3×43/0.07	2.7	5.35	5.51	33.3
BGTSR(X)-4	4	4.01	1044	12×3×29/0.07	2.9	4.59	4.83	39.0
		4.03	1050	7×3×50/0.07	3.0	4.59	4.83	39.0
BGTSR(X)-5	5	4.84	1260	7×3×60/0.07	3.2	3.71	3.86	46.5
		5.02	1305	15×3×29/0.07	3.2	3.71	3.86	48.5
BGTSR(X)-6	6	5.65	1470	7×3×70/0.07	3.6	2.93	3.21	54.2
BGTSR(X)-8	8	7.75	2016	12×3×56/0.07	4.2	2.33	2.44	73.0
BGTSR(X)-10	10	9.69	2520	12×3×70/0.07	4.8	1.83	1.91	90.5
BGTSR(X)-12	12	11.90	3096	12×3×86/0.07	5.4	1.50	1.60	112.2
BGTSR(X)-16	16	15.34	3990	19×3×70/0.07	6.2	1.16	1.21	150.5

Customization Upon Request

**HIGHLY FLEXIBLE  
COPPER STRANDED WIRES**



**HIGHLY FLEXIBLE COPPER  
STRANDED WIRES**

Round Type - Single Wire Diameter: 0.05mm (AWG44)

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Calculating Cross Section (mm <sup>2</sup> )	Structure		Calculating Outside diameter (mm)	Max. DC Resistance at 20°C Ω/km		Calculating weight (kg/km)
			Total Wire Number	Strands×Wire Number Per Strand/Single Wire Diameter (mm)		BGTSR	BGTSRX	
BGTSR(X)-1	1	0.99	504	7×3×24/0.05	1.4	18.5	19.3	9.3
BGTSR(X)-1.3	1.3	1.32	672	7×3×32/0.05	1.7	14.2	14.8	12.5
BGTSR(X)-1.5	1.5	1.48	756	7×3×36/0.05	1.8	11.9	12.7	14.0
BGTSR(X)-1.8	1.8	1.81	924	7×3×44/0.05	2.0	10.2	10.7	17.5
BGTSR(X)-2	2	1.98	1008	7×3×48/0.05	2.2	9.16	9.65	19.0
BGTSR(X)-2.5	2.5	2.30	1176	7×3×56/0.05	2.3	7.39	7.72	22.5
BGTSR(X)-3	3	2.95	1505	7×5×43/0.05	2.6	6.16	6.43	29.0
BGTSR(X)-4	4	3.95	2016	12×3×56/0.05	2.7	4.59	4.83	39.0
BGTSR(X)-5	5	4.94	2520	15×3×56/0.05	3.2	3.71	3.86	48.5
BGTSR(X)-6	6	6.26	3192	19×3×56/0.05	3.6	2.93	3.21	60.0
BGTSR(X)-8	8	8.05	4104	19×3×72/0.05	4.2	2.33	2.44	78.5
BGTSR(X)-10	10	10.00	5096	7×7×104/0.05	4.8	1.83	1.91	97.0
		10.07	5130	19×3×90/0.05	4.8	1.83	1.91	97.8
BGTSR(X)-12	12	12.08	6156	19×3×108/0.05	5.4	1.50	1.60	117.0

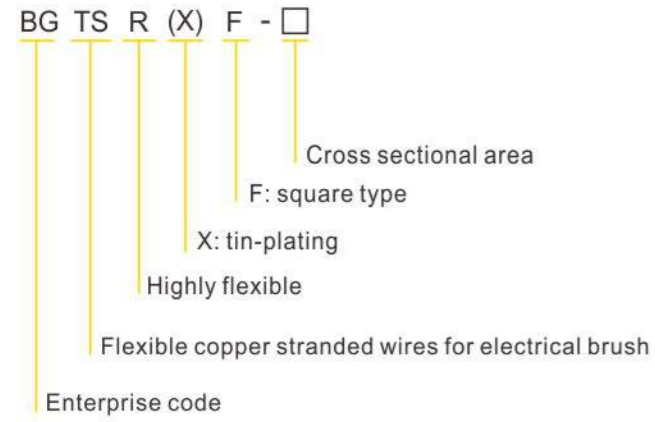
Customization Upon Request



### 2.2.3 BGTSR(X)F Type Flexible Copper Stranded Wires for Electric Brush

Square Type - Single Wire Diameter: 0.05mm (AWG44)

#### MODEL AND MEANING



Square Type - Single Wire Diameter: 0.05mm (AWG44)

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Calculating Cross Section (mm <sup>2</sup> )	Structure		Calculating Outside diameter (mm)	Max. DC Resistance at 20°C Ω/km		Calculating weight (kg/km)
			Total Wire Number	Strands×Wire Number Per Strand/Single Wire Diameter (mm)		BGTSRF	BGTSRXF	
BRTSR(X)F-1	1	1.00	512	8×64/0.05	1.5×1.5	18.5	19.3	9.3
BRTSR(X)F-1.5	1.5	1.50	768	8×96/0.05	1.9×1.9	11.9	12.7	14.0
BRTSR(X)F-2	2	2.00	1024	8×128/0.05	2.2×2.2	9.16	9.65	18.6
BRTSR(X)F-2.5	2.5	2.51	1280	8×160/0.05	2.4×2.4	7.39	7.72	23.4
BRTSR(X)F-3	3	3.29	1680	8×210/0.05	2.8×2.8	6.16	6.43	30.7
BRTSR(X)F-4	4	4.00	2040	8×255/0.05	3.2×3.2	4.59	4.83	37.3
BRTSR(X)F-5	5	5.02	2560	8×2×160/0.05	3.4×3.4	3.71	3.86	46.8
BRTSR(X)F-6	6	6.09	3136	8×2×194/0.05	3.7×3.7	2.93	3.21	56.8
BRTSR(X)F-10	10	10.04	5120	8×5×128/0.05	5.5×5.5	1.83	1.91	93.7
BRTSR(X)F-16	16	16.07	8192	8×8×128/0.05	8.2×8.2	1.16	1.21	150.0
BRTSR(X)F-20	20	20.09	10240	8×10×128/0.05	9.2×9.2	0.925	0.965	187.5
BRTSR(X)F-25	25	24.11	12288	8×12×128/0.05	10.1×10.1	0.736	0.769	225.0
BRTSR(X)F-30	30	30.14	15360	8×15×128/0.05	10.7×10.7	0.616	0.636	281.3

Customization Upon Request

**SQUARE TYPE HIGHLY FLEXIBLE COPPER STRANDED WIRES**



**INSULATED FLEXIBLE COPPER STRANDED WIRES**

### 2.3 BGTJRV(X) Type Insulated Flexible Copper Stranded Wires

#### CONSTRUCTION AND APPLICATION

BGTJRV(X) type insulated flexible copper stranded wires consists of annealed highly flexible Cu-ETP copper wires which are insulated with PVC, and can be used for flexible electrical connection inside switchgears, switch boards or vehicles, and also used as grounding connection in other applications.

#### TECHNICAL DATA

Material: annealed Cu-ETP wires, C11000, copper content ≥ 99.95%

Finish: bare, tin plating

PVC Insulation Color: transparent, green, yellow, blue, and red.

Other special color on request.

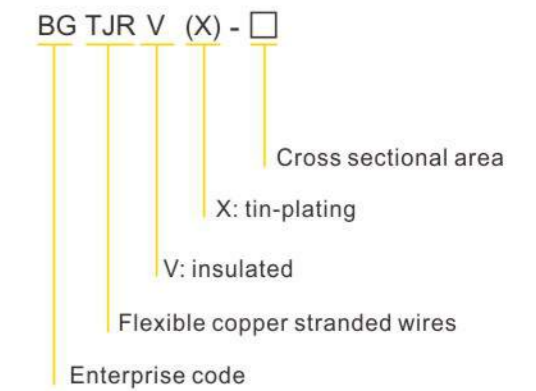
Single Wire Diameter:

- 0.05mm (AWG 44)
- 0.07mm (AWG 41)
- 0.10mm (AWG 38)
- 0.12mm
- 0.127mm (AWG 36)
- 0.15mm (standard)
- 0.20mm (AWG 32)
- 0.25mm
- 0.254mm (AWG 30)
- .....

Cross Sectional Area: 2.5mm<sup>2</sup> - 120mm<sup>2</sup>

Packing Modes: in rolls, on spools or wooden drums

#### MODEL AND MEANING



Customization Upon Request



### 2.3 BGTJRV(X) Type Insulated Flexible Copper Stranded Wires

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Measured Cross Section (Wires) (mm <sup>2</sup> )	Wire Structure Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Outer Diameter Approx. (mm)	Weight Approx. (kg/km)
BGTJRV(X)-2.5	2.5	2.01	3×38/0.15	4.8	28
BGTJRV(X)-4	4	3.60	3×68/0.15	5.4	50
BGTJRV(X)-6	6	6.05	7×49/0.15	6.0	75
BGTJRV(X)-8	8	8.03	7×65/0.15	6.6	100
BGTJRV(X)-10	10	10.01	7×81/0.15	7.2	124
BGTJRV(X)-12	12	11.98	7×97/0.15	7.8	150
BGTJRV(X)-16	16	14.08	7×3×38/0.15	9.4	182
BGTJRV(X)-20	20	18.16	7×3×49/0.15	10.5	234
BGTJRV(X)-25	25	21.87	7×3×59/0.15	11.5	282
BGTJRV(X)-35	35	32.25	7×3×81/0.15	13.0	389
BGTJRV(X)-50	50	44.80	9×3×94/0.15	15.8	584
BGTJRV(X)-70	70	94.72	13×3×94/0.15	19.0	852
BGTJRV(X)-95	95	89.61	18×3×94/0.15	23.0	1180
BGTJRV(X)-120	120	104.55	21×3×94/0.15	25.0	1376

Customization Upon Request



### 2.4 BGJT(X) Type Hard Drawn Copper Stranded Wires

#### CONSTRUCTION AND APPLICATION

BGJT(X) type hard drawn copper stranded wires consists of copper wires with larger diameter and stronger breaking load, and are used as electrical conductor.

Standard: TB/T3111-2005.

#### TECHNICAL DATA

Material: annealed Cu-ETP wires, C11000, copper content ≥ 99.95%

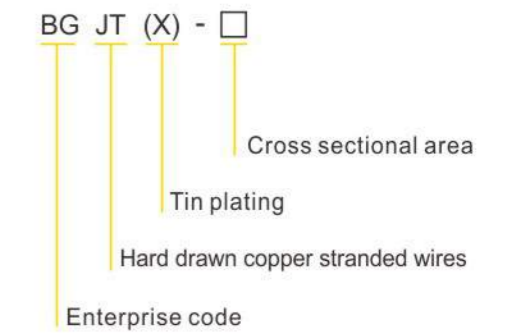
Finish: bare, tin plating

Single Wire Diameter: 1.70mm - 2.85mm

Cross Sectional Area: 16mm<sup>2</sup> - 400mm<sup>2</sup>

Packing Modes: in rolls, on spools or wooden drums

#### MODEL AND MEANING



Part No.	Nominal Cross Section (mm <sup>2</sup> )	Measured Cross Section (Wires) (mm <sup>2</sup> )	Wire Structure Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Outer Diameter Approx. (mm)	Weight Approx. (kg/km)
BGJT(X)-16	16	1.159	7/1.70	5.10	143
BGJT(X)-25	25	0.735	7/2.14	6.42	226
BGJT(X)-35	35	0.528	7/2.52	7.56	314
BGJT(X)-50	50	0.371	7/3.00	9.00	445
BGJT(X)-70	70	0.263	19/2.14	10.70	618
BGJT(X)-95	95	0.197	19/2.52	12.60	852
BGJT(X)-120	120	0.154	19/2.80	14.00	1057
BGJT(X)-150	150	0.121	19/3.15	15.75	1339
BGJT(X)-185	185	0.100	37/2.52	17.64	1660
BGJT(X)-240	240	0.077	37/2.85	19.95	2123
BGJT(X)-300	300	0.064	37/3.15	21.70	2594
BGJT(X)-400	400	0.062	61/2.85	25.65	3502

Customization Upon Request



# COPPER STRANDED CONNECTORS WITH FERRULES



## 2.5 Copper Stranded Connectors with Ferrules

### CONSTRUCTION AND APPLICATION

The flexible copper stranded connectors are made of flexible stranded copper wires with solderless pressed ferrules at each side as contact areas.

The flexible copper stranded wires consist of Cu-ETP wires which are braided according to standard GB/T12970.2-2009.

### TECHNICAL DATA

Material: annealed Cu-ETP wires, C11000, copper content ≥ 99.95%

Finish: bare, tin plating, nickel plating, silver plating

Single Wire Diameter:

- 0.05mm (AWG 44)
- 0.07mm (AWG 41)
- 0.10mm (AWG 38)
- 0.12mm
- 0.127mm (AWG 36)
- 0.15mm (standard)
- 0.20mm (AWG 32)
- 0.25mm
- 0.254mm (AWG 30)

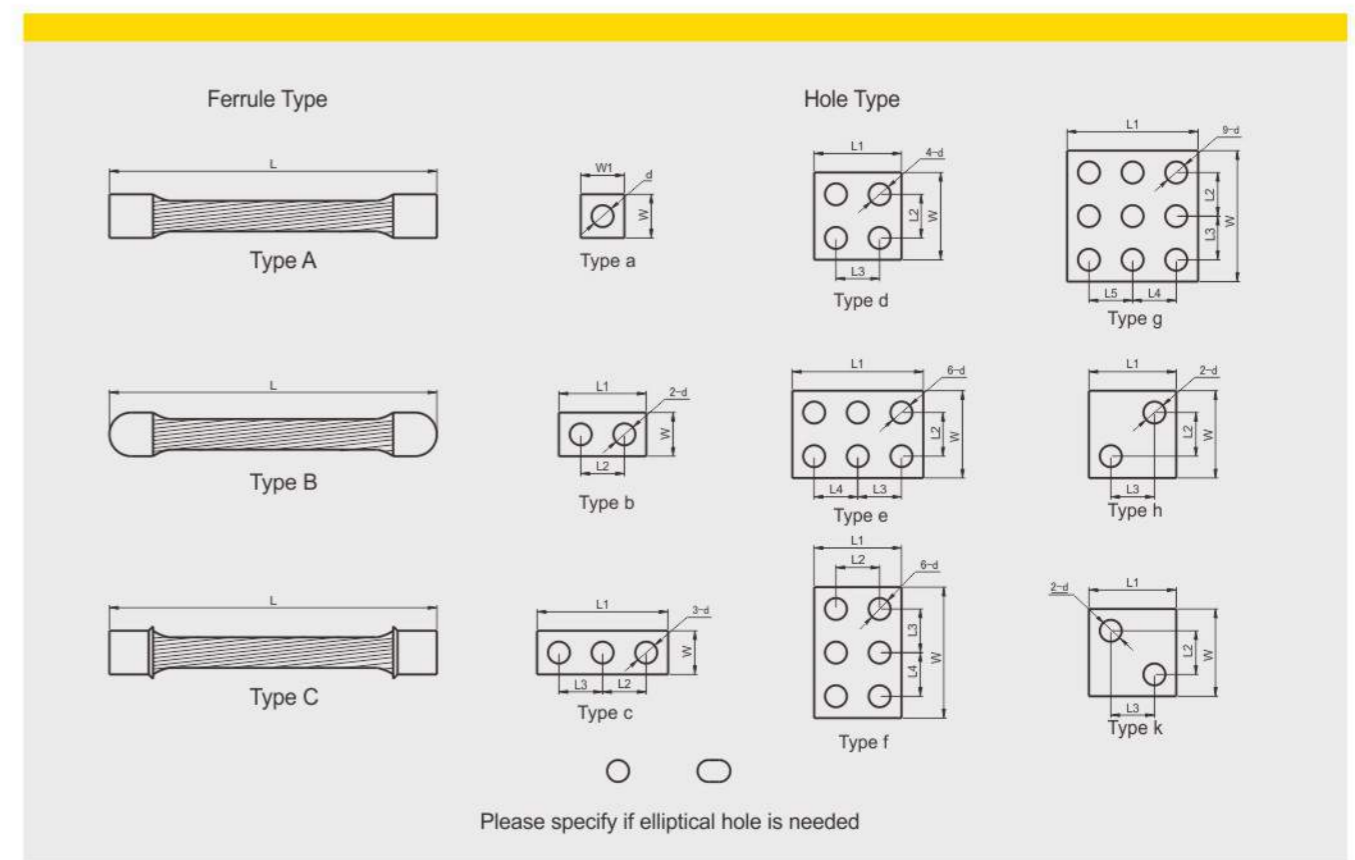
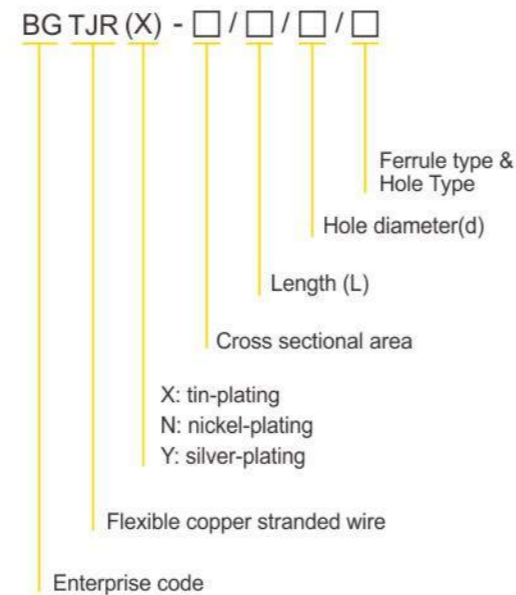
Cross Sectional Area: 1.5mm<sup>2</sup> - 2000mm<sup>2</sup>

When you place an order, please specify:

- Cross sectional area
- Length (L)
- Ferrule Type & Hole Type
- Hole Diameter (d)
- Single Wire Diameter (default 0.15mm)

### Customization Upon Request

### MODEL AND MEANING



### Cross sectional area: 1.5mm<sup>2</sup> - 95mm<sup>2</sup>

Part No.	Cross Section (mm <sup>2</sup> )	W/W1 Approx. (mm)	Thickness Approx. (mm)	L(mm)	d(mm)
BGTJR(X)-1.5/L/d/Aa	1.5	4	1.6	According to your request	According to your request
BGTJR(X)-2/L/d/Aa	2	5	1.6		
BGTJR(X)-2.5/L/d/Aa	2.5	6	1.6		
BGTJR(X)-4/L/d/Aa	4	7	1.8		
BGTJR(X)-6/L/d/Aa	6	10	1.8		
BGTJR(X)-8/L/d/Aa	8	12	1.8		
BGTJR(X)-10/L/d/Aa	10	15	1.8		
BGTJR(X)-12/L/d/Aa	12	20	1.9		
BGTJR(X)-16/L/d/Aa	16	19	2.2		
BGTJR(X)-20/L/d/Aa	20	20	2.4		
		25	2.6		
BGTJR(X)-25/L/d/Aa	25	20	2.7		
		25	2.8		
BGTJR(X)-35/L/d/Aa	35	25	3.3		
BGTJR(X)-50/L/d/Aa	50	20	4.2		
		25	4.0		
		30	4.0		
		40	3.5		
		45	4.0		
BGTJR(X)-70/L/d/Aa	70	20	7.0		
		25	5.7		
		30	5.5		
BGTJR(X)-95/L/d/Aa	95	40	5.3		

Customization Upon Request



Cross sectional area: 100mm<sup>2</sup>- 500mm<sup>2</sup>

Part No.	Cross Section (mm <sup>2</sup> )	W/W1 Approx. (mm)	Thickness Approx. (mm)	L(mm)	d(mm)
BGTJR(X)-100/L/d/Aa	100	20	8.5		
		25	7.0		
		30	6.5		
		40	5.4		
		45	5.5		
		50	5.4		
BGTJR(X)-120/L/d/Aa	120	25	8.5		
		30	7.3		
		45	6.3		
		50	5.9		
BGTJR(X)-150/L/d/Aa	150	30	8.6		
		40	6.9		
		45	7.1		
		50	6.6		
BGTJR(X)-185/L/d/Aa	185	30	10.0		
		40	8.0		
		50	7.5		
BGTJR(X)-200/L/d/Aa	200	30	10.6		
		40	8.4		
		50	7.8		
		60	7.0		
BGTJR(X)-250/L/d/Aa	250	75	6.7	According to your request	According to your request
		100	7.0		
		30	12.7		
		40	10.0		
		45	9.8		
		60	8.0		
		50	9.0		
BGTJR(X)-300/L/d/Aa	300	75	8.0		
		100	7.8		
		30	14.7		
		40	11.5		
		45	11.1		
		50	10.2		
		60	9.0		
BGTJR(X)-400/L/d/Aa	400	75	8.0		
		80	8.0		
		100	7.8		
		40	16.5		
		45	16.0		
		50	13.0		
		75	10.6		
BGTJR(X)-500/L/d/Aa	500	80	9.5		
		100	10.0		
		120	9.0		
		150	9.0		
		40	18.9		
		45	17.0		
		50	15.5		
BGTJR(X)-500/L/d/Aa	500	60	14.0		
		75	14.0		
		80	13.5		
		100	11.2		
		120	10.2		
		150	11.0		

Customization Upon Request



## 2.6 Copper Stranded Connectors with Lugs

### CONSTRUCTION AND APPLICATION

The flexible copper stranded connectors are made of flexible copper stranded wires with solderless pressed lugs at each side as contact areas. Normally the connectors of smaller cross sectional area adopts this connecting type. And please refer to Page 62-70, Part 4.4 for more lug type information.

The flexible copper stranded wires consist of Cu-ETP wires which are braided according to standard GB/T12970.2-2009.

### TECHNICAL DATA

Material: annealed Cu-ETP wires, C11000, copper content ≥ 99.95%

Finish: bare, tin plating, nickel plating, silver plating

Single Wire Diameter:

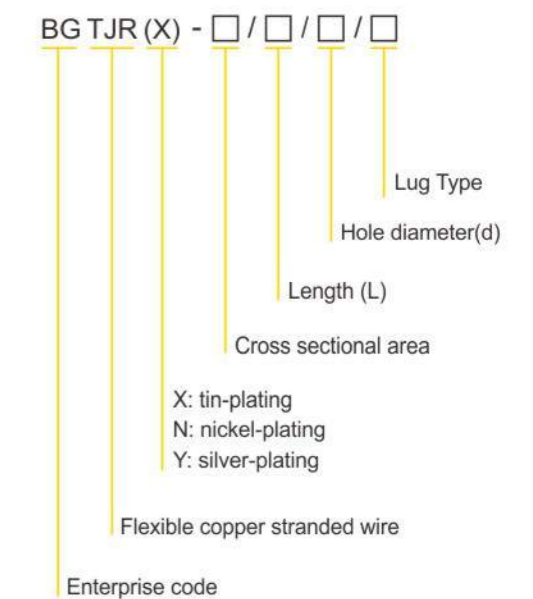
- 0.05mm (AWG 44)
- 0.07mm (AWG 41)
- 0.10mm (AWG 38)
- 0.12mm
- 0.127mm (AWG 36)
- 0.15mm (standard)
- 0.20mm (AWG 32)
- 0.25mm
- 0.254mm (AWG 30)

Cross Sectional Area: 1.5mm<sup>2</sup> - 500mm<sup>2</sup>

When you place an order, please specify:

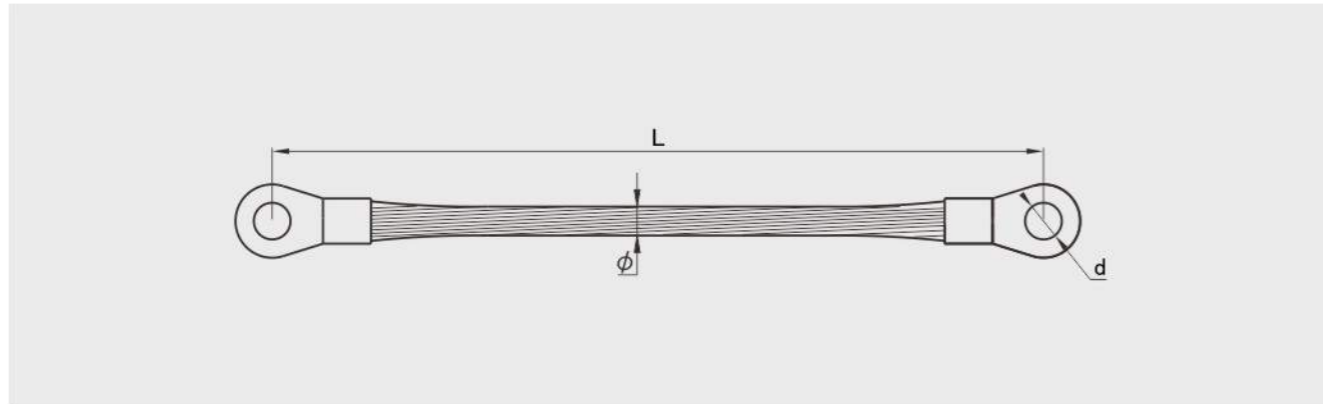
- Cross Sectional Area
- Length between holes (L)
- Lug Type (See Page 62-70, Part 4.4) for more lug details type information.)
- Hole Diameter (d)
- Single Wire Diameter (default 0.15mm)

### MODEL AND MEANING



Customization Upon Request





### Copper Stranded Connectors with Lugs

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Φ Approx. (mm)	L(mm)	d(mm)
BGTJR(X)-1.5/L/d/SC	1.5	1.1	According to your request	According to your request
BGTJR(X)-2/L/d/SC	2	1.9		
BGTJR(X)-2.5/L/d/SC	2.5	2.2		
BGTJR(X)-4/L/d/SC	4	2.8		
BGTJR(X)-5/L/d/SC	5	3.0		
BGTJR(X)-6/L/d/SC	6	3.5		
BGTJR(X)-8/L/d/SC	8	4.0		
BGTJR(X)-10/L/d/SC	10	4.6		
BGTJR(X)-12/L/d/SC	12	5.0		
BGTJR(X)-16/L/d/SC	16	6.0		
BGTJR(X)-20/L/d/SC	20	6.8		
BGTJR(X)-25/L/d/SC	25	7.7		
BGTJR(X)-35/L/d/SC	35	9.0		
BGTJR(X)-50/L/d/SC	50	11.0		
BGTJR(X)-70/L/d/SC	70	13.2		
BGTJR(X)-95/L/d/SC	95	15.5		
BGTJR(X)-100/L/d/SC	100	15.8		
BGTJR(X)-120/L/d/SC	120	16.8		
BGTJR(X)-150/L/d/SC	150	18.5		
BGTJR(X)-185/L/d/SC	185	21.5		
BGTJR(X)-200/L/d/SC	200	22.5		
BGTJR(X)-250/L/d/SC	250	25.0		
BGTJR(X)-315/L/d/SC	315	31.0		
BGTJR(X)-400/L/d/SC	400	34.0		
BGTJR(X)-500/L/d/SC	500	38.0		

Customization Upon Request



## COPPER STRANDED CONNECTORS WITH INSULATION

### 2.7 Copper Stranded Connectors with Insulation

#### CONSTRUCTION AND APPLICATION

Our copper stranded connectors can be insulated with various insulating materials in different colors based on the specific requirements, like insulation class, temperature grade, voltage class and flame retardant rating, etc.

We can provide the insulating materials as follows:

- PVC heat-shrinkable tube
- PVC cold-shrinkable tube
- PVC non-shrinkable tube
- Extruded PVC tube
- Extruded TPE tube
- Glass fiber tube
- Silicone rubber tube
- Silicone rubber glass fiber tube
- Silicone rubber heat-shrinkable tube



Customization Upon Request





## CUSTOMIZED PRODUCT SHOW (STRANDED COPPER CONNECTORS)

### 2.8 Customized Product Show (Stranded Copper Connectors)

#### CONSTRUCTION AND APPLICATION

Besides the regular stranded copper connectors, we can manufacture customized ones in special shapes and sizes.

BRIDGOLD owns a professional team of engineers and technician, who can provide you with a professional solution according to your requirements and product application.

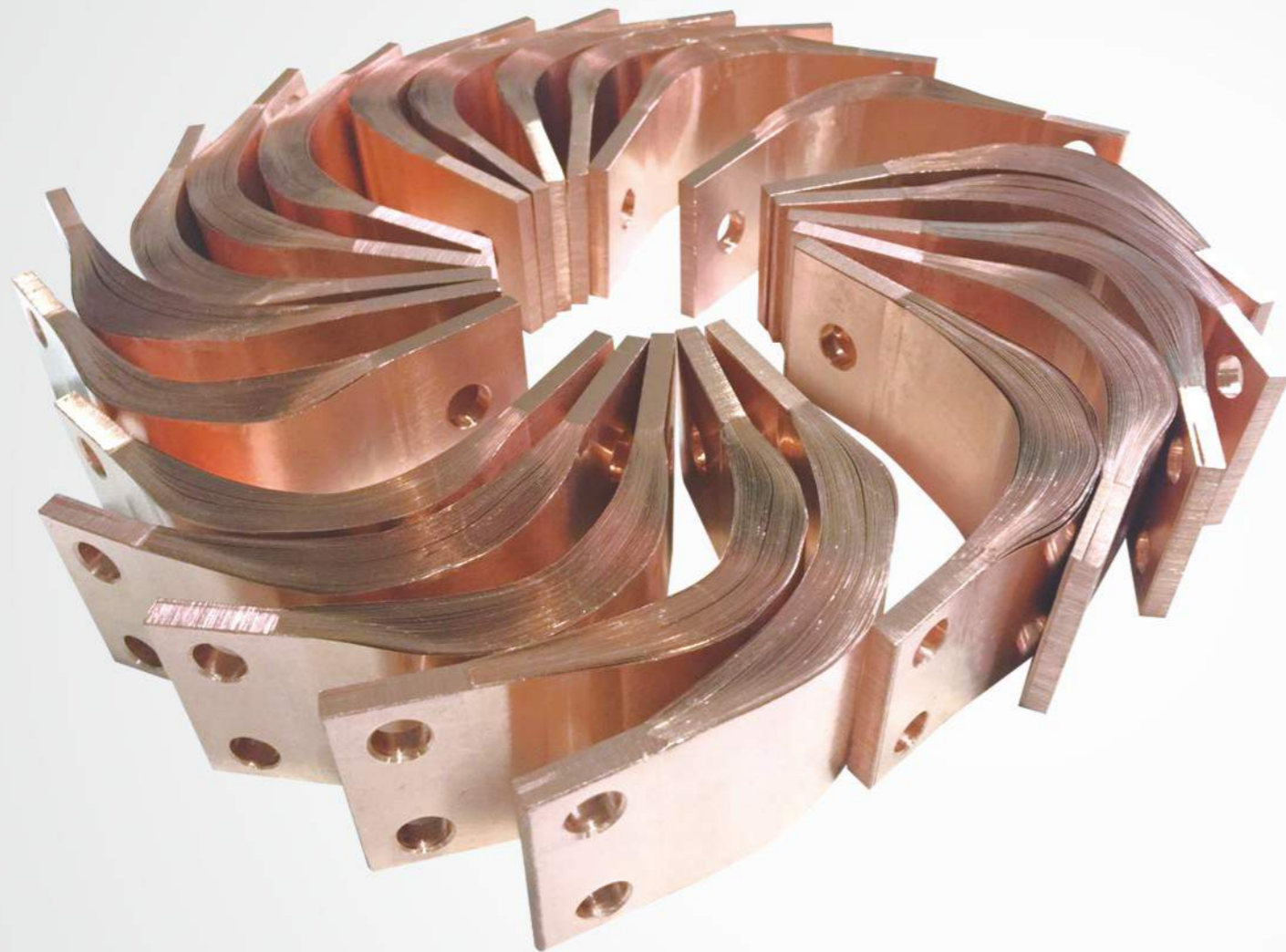
Our goal is to create a professional customization-oriented enterprise of flexible copper connectors.



Customization Upon Request







## Part 3

### LAMINATED COPPER CONNECTORS

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- 3.1 Flexible Copper Foil Laminated Connectors with Welded Ends
  - 3.1.1 No-Plating Flexible Copper Foil Laminated Connectors
  - 3.1.2 Tin-, Nickel-, and Silver-Plating Flexible Copper Foil Laminated Connectors
  - 3.1.3 Flexible Laminated Copper Connectors with Nickel Foils or Silver Foils on Upper and Lower Laminations
  - 3.1.4 Flexible Copper Foil Laminated Connectors with Insulation
- 3.2 Flexible Copper Foil Laminated Connectors with Ferrules
- 3.3 Flexible Insulated Copper Busbars
- 3.4 Customized Product Show (Flexible Laminated Copper Connectors)



# LAMINATED COPPER FOIL CONNECTORS



## 3.1 BGTBR(X) Type Flexible Copper Foil Laminated Connectors with Welded Ends

### CONSTRUCTION AND APPLICATION

BGTBR(X) type flexible copper foil laminated connector consists of C11000 copper foils, the both ends of which are press-welded together. The welding process is also called molecular diffusion welding which makes the lamination pressed and heated with each other, and then the contact area is shaped.

Thus the laminated copper foil connector is an excellent electrical conductor, so the laminated copper foil connectors are normally used in new-energy vehicles, switchgear industries, power plants, cathodic protection, bus ducts, transformer, vacuum circuit breaker, resistance welding engineering, electric locomotives and furnaces, etc.

Most of the laminated copper foil connectors are customized according to the drawing.

### TECHNICAL DATA

Material: C11000 copper foil, copper content  $\geq 99.95\%$

- Single Foil Thickness:
- 0.03mm
  - 0.05mm
  - 0.10mm (standard)
  - 0.20mm
  - 0.30mm
  - 0.40mm
  - 0.50mm

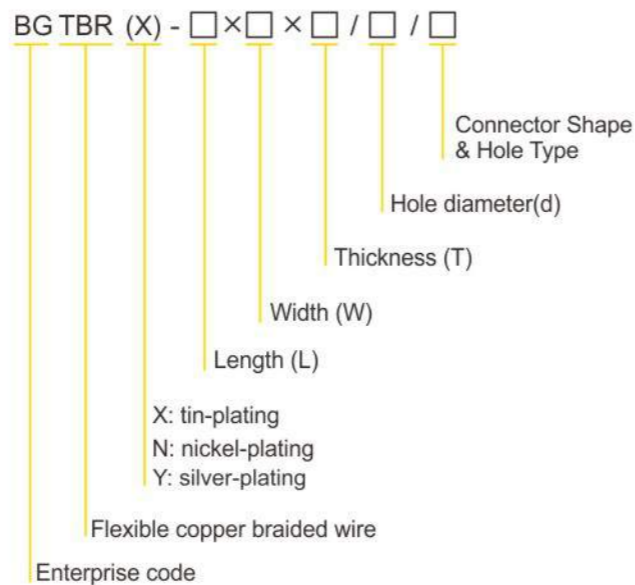
Finish: no plating, tin plating, nickel plating, silver plating

Cross Sectional Area:  $1.5\text{mm}^2 - 5000\text{mm}^2$

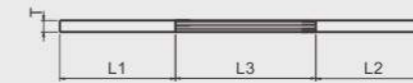
When you place an order, please specify:

- Length (L)×Width (W)×Thickness (T)
- Connector Shape & Hole Type
- Hole Diameter (d)- Single Foil Thickness (default 0.10mm)

### MODEL AND MEANING



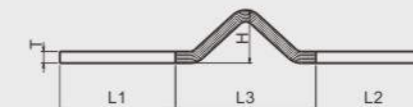
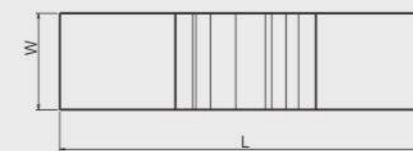
### Customization Upon Request



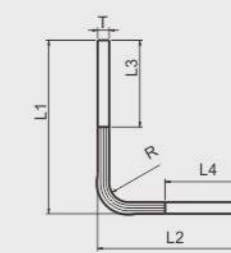
Type A



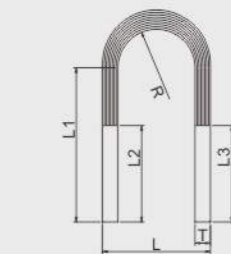
Type B



Type C



Type D



Type E



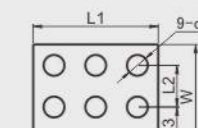
### Hole Type



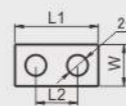
Type a



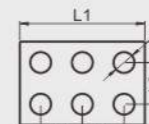
Type d



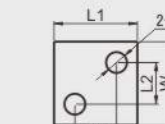
Type g



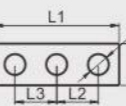
Type b



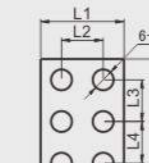
Type e



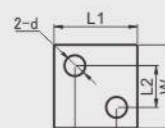
Type h



Type c



Type f



Type k

Please specify if elliptical hole is needed



### 3.1 BGTBR(X) Type Flexible Copper Foil Laminated Connectors

Part No.	Cross Section (mm <sup>2</sup> )	Width (mm)	Thickness Approx. (mm)	L (mm)	d(mm)
BGTBR(X)-L×40×5/d/Aa	200	40	5	According to your request	According to your request
BGTBR(X)-L×40×8/d/Aa	320		8		
BGTBR(X)-L×40×10/d/Aa	400		10		
BGTBR(X)-L×40×12/d/Aa	480		12		
BGTBR(X)-L×40×15/d/Aa	600		15		
BGTBR(X)-L×40×20/d/Aa	800		20		
BGTBR(X)-L×50×5/d/Aa	250	50	5		
BGTBR(X)-L×50×8/d/Aa	400		8		
BGTBR(X)-L×50×10/d/Aa	500		10		
BGTBR(X)-L×50×12/d/Aa	600		12		
BGTBR(X)-L×50×15/d/Aa	750		15		
BGTBR(X)-L×50×20/d/Aa	1000		20		
BGTBR(X)-L×60×5/d/Aa	300	60	5		
BGTBR(X)-L×60×8/d/Aa	480		8		
BGTBR(X)-L×60×10/d/Aa	600		10		
BGTBR(X)-L×60×12/d/Aa	720		12		
BGTBR(X)-L×60×15/d/Aa	900		15		
BGTBR(X)-L×60×20/d/Aa	1200		20		
BGTBR(X)-L×80×5/d/Aa	400	80	5		
BGTBR(X)-L×80×8/d/Aa	640		8		
BGTBR(X)-L×80×10/d/Aa	800		10		
BGTBR(X)-L×80×12/d/Aa	960		12		
BGTBR(X)-L×80×15/d/Aa	1200		15		
BGTBR(X)-L×80×20/d/Aa	1600		20		
BGTBR(X)-L×100×5/d/Aa	500	100	5		
BGTBR(X)-L×100×8/d/Aa	800		8		
BGTBR(X)-L×100×10/d/Aa	1000		10		
BGTBR(X)-L×100×12/d/Aa	1200		12		
BGTBR(X)-L×100×15/d/Aa	1500		15		
BGTBR(X)-L×100×20/d/Aa	2000		20		
BGTBR(X)-L×100×25/d/Aa	2500	25			
BGTBR(X)-L×120×5/d/Aa	600	120	5		
BGTBR(X)-L×120×8/d/Aa	960		8		
BGTBR(X)-L×120×10/d/Aa	1200		10		
BGTBR(X)-L×120×12/d/Aa	1440		12		
BGTBR(X)-L×120×15/d/Aa	1800		15		
BGTBR(X)-L×120×20/d/Aa	2400		20		
BGTBR(X)-L×120×25/d/Aa	3000	25			
BGTBR(X)-L×160×5/d/Aa	800	160	5		
BGTBR(X)-L×160×8/d/Aa	1280		8		
BGTBR(X)-L×160×10/d/Aa	1600		10		
BGTBR(X)-L×160×12/d/Aa	1920		12		
BGTBR(X)-L×160×15/d/Aa	2400		15		
BGTBR(X)-L×160×20/d/Aa	3200		20		
BGTBR(X)-L×160×25/d/Aa	4000		25		
BGTBR(X)-L×160×30/d/Aa	4800		30		

Customization Upon Request



#### 3.1.1 No-Plating Flexible Copper Foil Laminated Connectors

The standard type laminated copper foil connector has no plating, and is made of bare copper foils.



Customization Upon Request





## TIN-, NICKEL-, AND SILVER-PLATING LAMINATED COPPER FOIL CONNECTORS

### 3.1.2 Tin-, Nickel-, and Silver-Plating Laminated Copper Foil Connectors

On your request, the contact area of the laminated copper foil connectors or the whole connectors can be plated with tin, nickel or silver. The flexible copper foil laminated connectors with plating have better resistance to oxidation and corrosion.



Customization Upon Request



## LAMINATED COPPER FOIL CONNECTORS WITH NICKEL FOILS OR SILVER FOILS ON UPPER AND LOWER LAMINATIONS

### 3.1.3 Laminated Copper Foil Connectors with nickel foils or silver foils on upper and lower laminations

On your request, the laminated copper foil connectors can be covered with two nickel or silver foils on upper and lower laminations. Besides better resistance to oxidation and corrosion, the flexible copper foil laminated connectors with nickel or silver foils will not be corroded as there is no residual plating solution inside.

Single nickel or silver foil thickness: 0.05mm  
0.10mm  
0.20mm



Customization Upon Request



## FLEXIBLE COPPER FOIL LAMINATED CONNECTORS WITH INSULATION



### 3.1.4 Flexible Copper Foil Laminated Connectors with Insulation

On your request, the laminated copper foil connectors can be insulated with PVC heat-shrinkable tube or PVC dip coating. Both PVC heat-shrinkable tube and PVC dip coating make the laminated copper foil connectors with better resistance to oxidation and corrosion, thus the insulation requirements of electrical parts is satisfied.

The flexibility and abrasion performance of PVC dip coating are better than those of heat-shrinkable tube, which can guarantee the completeness of the insulation of flexible laminated copper connectors in abnormal shape.



Customization Upon Request

## FLEXIBLE COPPER FOIL LAMINATED CONNECTORS WITH FERRULES



### 3.2 Flexible Copper Foil Laminated Connectors with Ferrules

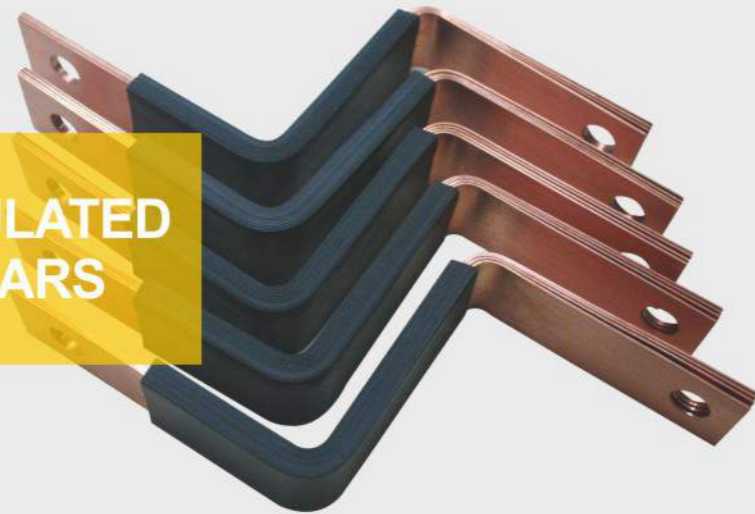
Normally the standard type flexible copper foil laminated connectors are welded at both sides, while on your request, we can process it with ferrules which are solderless pressed.



Customization Upon Request



# FLEXIBLE INSULATED COPPER BUSBARS



## 3.3 Flexible Insulated Copper Busbars

### CONSTRUCTION AND APPLICATION

Flexible insulated copper busbars consist of several layers of uncoated or tinned copper strips and are insulated with flexible high quality PVC or TPE. TPE has the features of LSOH (Low Smoke Zero Halogen).

The flexible insulated copper busbars are easy to be processed and mounted as the copper strips move freely inside the insulation and therefore the busbars has the high bending and twisting characteristics. Besides, the flexible insulated copper busbars can bear higher current than other conductors of the same cross sectional area. Then, it saves the materials, and weight and layout space.

Production Standard: GB/T5023

### TECHNICAL DATA

Material: C11000 copper strip, copper content  $\geq 99.95\%$

Single Strip Thickness:

0.8mm

1mm

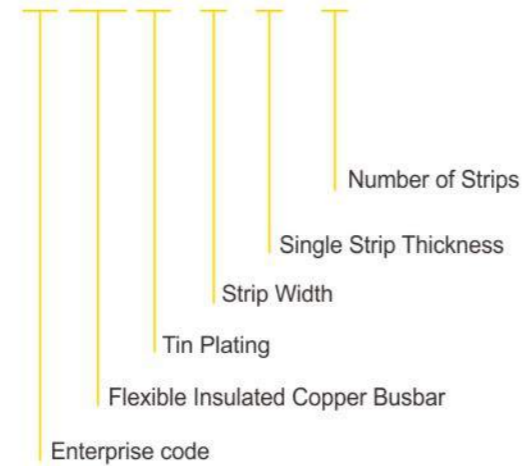
Finish: no plating, tin plating

Insulating Material: PVC, TPE

Insulation Color: Black

### MODEL AND MEANING

BG RMP (X) - □ × □ × □



Customization Upon Request

## 3.3 Flexible Insulated Copper Busbars

Part No.	Cross Section (mm <sup>2</sup> )	Current Capacity (A)		
		$\Delta T=20K(3)$	$\Delta T=40K(4)$	$\Delta T=50K(5)$
BGRMP(X)-16×0.8×2	25.6	125	175	200
BGRMP(X)-16×0.8×3	38.4	160	210	240
BGRMP(X)-16×0.8×4	51.2	195	265	295
BGRMP(X)-16×0.8×6	76.8	225	320	360
BGRMP(X)-16×0.8×8	102.4	265	380	430
BGRMP(X)-16×0.8×10	128	300	420	480
BGRMP(X)-20×1×2	40	170	240	270
BGRMP(X)-20×1×3	60	230	320	360
BGRMP(X)-20×1×4	80	270	380	440
BGRMP(X)-20×1×5	100	300	430	490
BGRMP(X)-20×1×6	120	330	470	530
BGRMP(X)-20×1×8	160	400	560	620
BGRMP(X)-20×1×10	200	420	580	650
BGRMP(X)-24×1×2	48	200	280	320
BGRMP(X)-24×1×3	72	250	360	410
BGRMP(X)-24×1×4	96	280	410	460
BGRMP(X)-24×1×5	120	330	470	530
BGRMP(X)-24×1×6	144	360	510	570
BGRMP(X)-24×1×8	192	420	590	670
BGRMP(X)-24×1×10	240	500	700	790
BGRMP(X)-32×1×2	64	230	320	360
BGRMP(X)-32×1×3	96	280	410	460
BGRMP(X)-32×1×4	128	320	460	520
BGRMP(X)-32×1×5	160	390	550	610
BGRMP(X)-32×1×6	192	440	620	700
BGRMP(X)-32×1×8	256	510	720	822
BGRMP(X)-32×1×10	320	600	840	930

Customization Upon Request

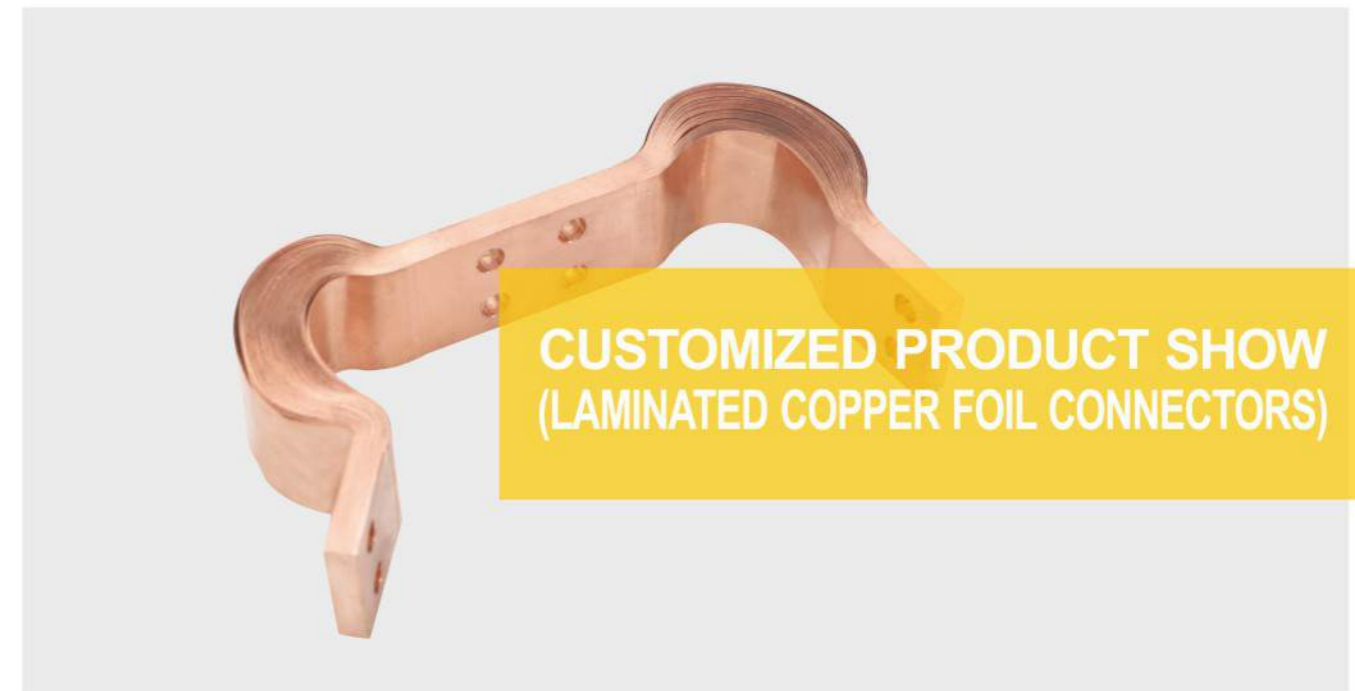
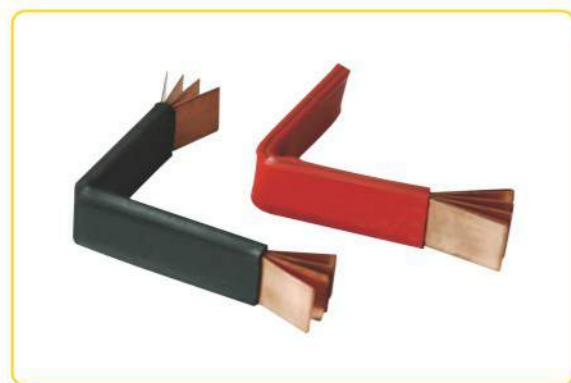




### 3.3 Flexible Insulated Copper Busbars

Part No.	Cross Section (mm <sup>2</sup> )	Current Capacity (A)		
		△T=20K(3)	△T=40K(4)	△T=50K(5)
BGRMP(X)-40×1×2	80	240	330	380
BGRMP(X)-40×1×3	120	330	480	540
BGRMP(X)-40×1×4	160	400	560	630
BGRMP(X)-40×1×5	200	450	630	710
BGRMP(X)-40×1×6	240	480	680	750
BGRMP(X)-40×1×8	320	600	830	920
BGRMP(X)-40×1×10	400	670	920	1030
BGRMP(X)-50×1×3	150	400	570	650
BGRMP(X)-50×1×4	200	490	700	790
BGRMP(X)-50×1×5	250	540	780	880
BGRMP(X)-50×1×6	300	590	840	950
BGRMP(X)-50×1×8	400	680	1000	1130
BGRMP(X)-50×1×10	500	750	1100	1300
BGRMP(X)-63×1×5	315	650	900	1000
BGRMP(X)-63×1×6	378	690	980	1100
BGRMP(X)-63×1×8	504	840	1200	1350
BGRMP(X)-63×1×10	630	920	1300	1450
BGRMP(X)-80×1×5	400	700	1100	1230
BGRMP(X)-80×1×6	480	780	1210	1360
BGRMP(X)-80×1×8	640	950	1400	1570
BGRMP(X)-80×1×10	800	1090	1550	1730
BGRMP(X)-100×1×5	500	860	1250	1400
BGRMP(X)-100×1×6	600	950	1380	1530
BGRMP(X)-100×1×8	800	1100	1580	1760
BGRMP(X)-100×1×10	1000	1220	1710	1920
BGRMP(X)-100×1×12	1200	1300	1800	2010

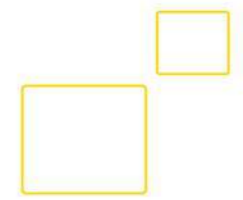
Customization Upon Request



### 3.4 Customized Product Show (Laminated Copper Foil Connectors)

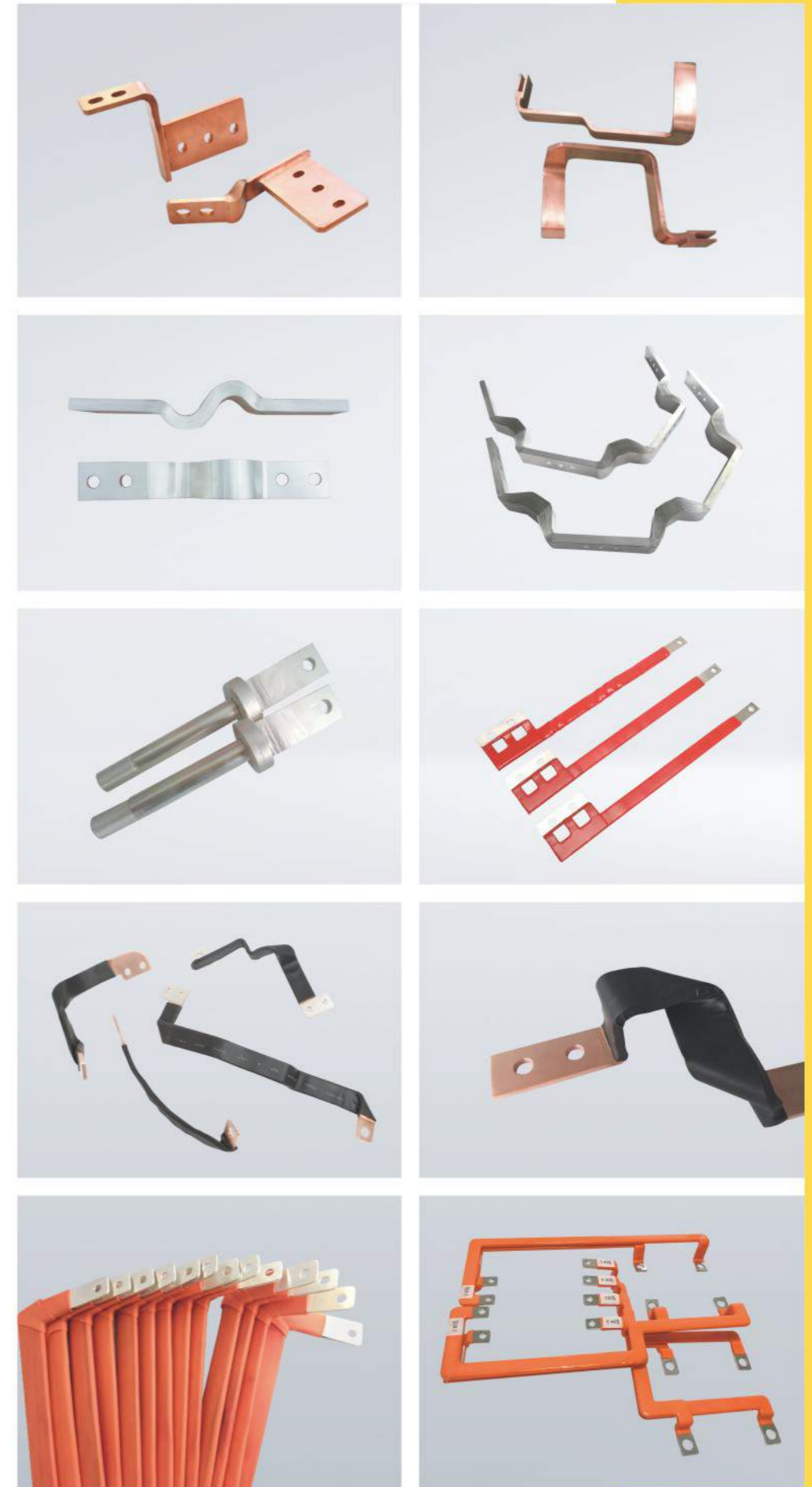
Besides the regular laminated copper foil connectors, we can manufacture customized ones in special shapes and sizes. BRIDGOLD owns a professional team of engineers and technician, who can provide you with a professional solution according to your requirements and product application.

Our goal is to create a professional customization-oriented enterprise of flexible copper connectors.

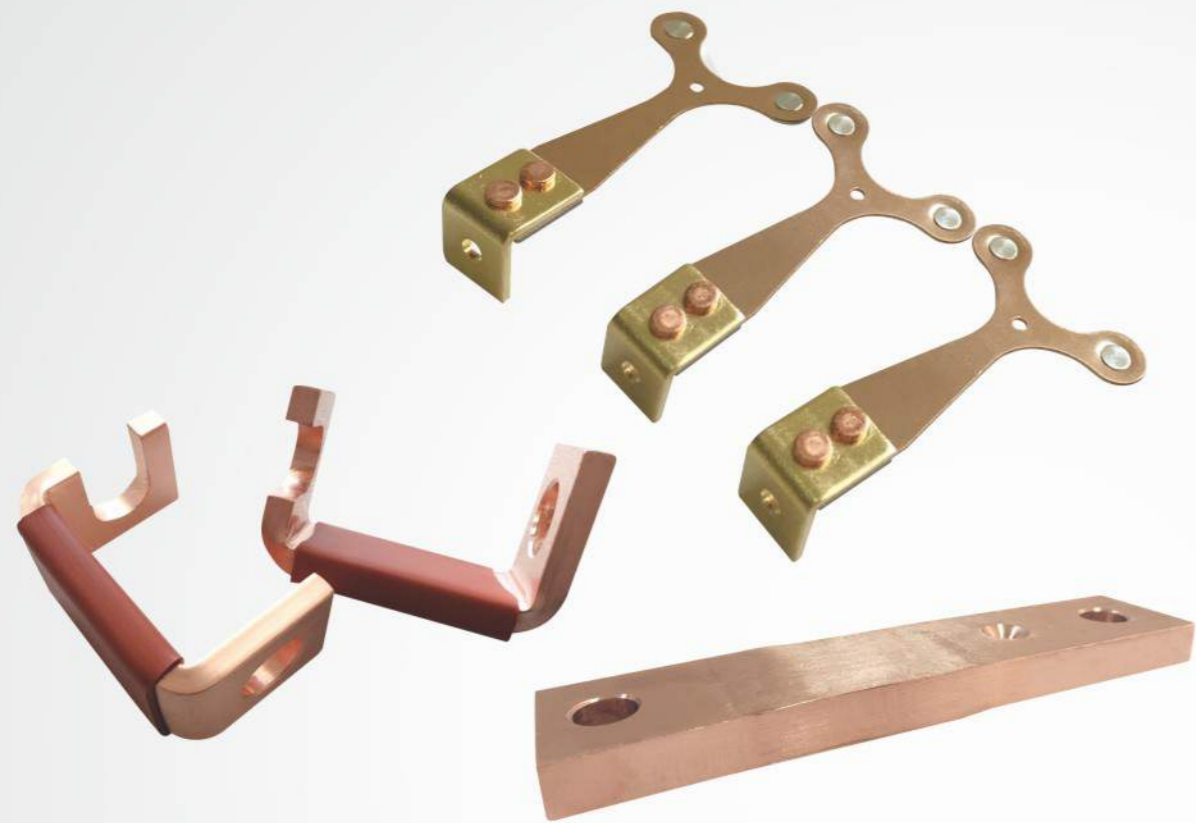


Customization Upon Request









## Part 4

### OTHER COPPER PRODUCTS

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- 4.1 Annealed Copper Binding Wire
- 4.2 TMY Type Copper Bus Bars
- 4.3 Customized Copper Bus Bars and Copper Parts
- 4.4 Copper Lugs and Copper Aluminum Bi-metal Lugs
  - 4.4.1 SC Copper Lugs
  - 4.4.2 JG Copper Lugs
  - 4.4.3 DT Copper Lugs
  - 4.4.4 RNB Copper Lugs
  - 4.4.5 OT Copper Lugs
  - 4.4.6 UT Copper Lugs
  - 4.4.7 DTL-1 Bi-Metal Copper-Aluminum Lugs
  - 4.4.8 DTL-2 Bi-Metal Copper-Aluminum Lugs
- 4.5 Customized Copper Lug and Terminals





## ANNEALED COPPER BINDING WIRE

### 4.1 Annealed Copper Binding Wire

#### TECHNICAL DATA

Material: annealed Cu-ETP wires, C11000, copper content  $\geq 99.95\%$   
 Finish: bare, tin plating

Wire Diameter: 0.8mm (AWG 20)  
 1.0mm (AWG 18)  
 1.2mm  
 1.5mm  
 1.8mm (AWG 13)  
 2.0mm (AWG 12)  
 2.2mm

Packing Modes: in rolls, on spools or wooden drums



Customization Upon Request



## COPPER BUS BARS

### 4.2 TMY Type Copper Bus Bars

#### CONSTRUCTION AND APPLICATION

TMY type copper bus bars, a high-current conductive product, are applicable for high-and low-voltage electrical apparatus, switch contacts, power distribution devices and bus ducts, ect, as the copper bus bars have the advantages of low resistance and large bending property.

Standard: GB/T 5585.1-2005

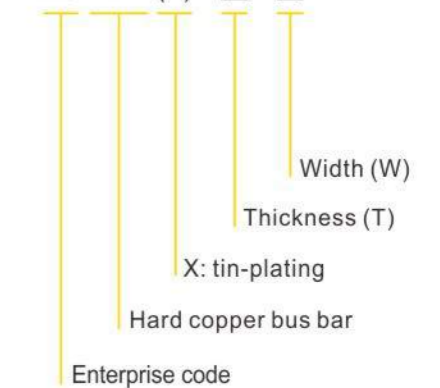
#### TECHNICAL DATA

Material: C11000 copper, copper content  $\geq 99.95\%$   
 Finish: no plating, tin plating  
 Cross Sectional Area:  $1.5\text{mm}^2 - 5000\text{mm}^2$   
 Brinell Hardness:  $\geq 65$



#### MODEL AND MEANING

BG TMY (X) - □ × □



Customization Upon Request



#### 4.2 TMY Type Copper Bus Bars

Part No.	Thickness (mm)	Width (mm)
BGTMY(X)-3×15	3	15
BGTMY(X)-3×20		20
BGTMY(X)-3×25		25
BGTMY(X)-3×30		30
BGTMY(X)-3×40		40
BGTMY(X)-3×50		50
BGTMY(X)-4×20	4	20
BGTMY(X)-4×25		25
BGTMY(X)-4×30		30
BGTMY(X)-4×40		40
BGTMY(X)-4×50		50
BGTMY(X)-5×20		5
BGTMY(X)-5×25	25	
BGTMY(X)-5×30	30	
BGTMY(X)-5×40	40	
BGTMY(X)-5×50	50	
BGTMY(X)-5×55	55	
BGTMY(X)-5×60	60	
BGTMY(X)-5×70	70	
BGTMY(X)-6×20	6	20
BGTMY(X)-6×25		25
BGTMY(X)-6×30		30
BGTMY(X)-6×40		40
BGTMY(X)-6×50		50
BGTMY(X)-6×60		60
BGTMY(X)-6×80		80
BGTMY(X)-6×100		100
BGTMY(X)-7×70	7	70
BGTMY(X)-7×80	7	80
BGTMY(X)-8×30	8	30
BGTMY(X)-8×40		40
BGTMY(X)-8×50		50
BGTMY(X)-8×80		80
BGTMY(X)-8×100		100
BGTMY(X)-8×120	8	120
BGTMY(X)-10×20	10	20
BGTMY(X)-10×30		30
BGTMY(X)-10×40		40
BGTMY(X)-10×50		50
BGTMY(X)-10×60		60
BGTMY(X)-10×80		80
BGTMY(X)-10×100		100
BGTMY(X)-10×120		120
BGTMY(X)-10×125		125
BGTMY(X)-10×150		150
BGTMY(X)-10×200	200	

Customization Upon Request

#### 4.2 TMY Type Copper Bus Bars

Part No.	Thickness (mm)	Width (mm)	Part No.	Thickness (mm)	Width (mm)	
BGTMY(X)-12×20	12	20	BGTMY(X)-25×25	25	25	
BGTMY(X)-12×30		30	BGTMY(X)-25×30		30	
BGTMY(X)-12×40		40	BGTMY(X)-25×40		40	
BGTMY(X)-12×50		50	BGTMY(X)-25×50		50	
BGTMY(X)-12×60		60	BGTMY(X)-25×60		60	
BGTMY(X)-12×80		80	BGTMY(X)-25×80		80	
BGTMY(X)-12×100		100	BGTMY(X)-25×100		100	
BGTMY(X)-12×120		120	BGTMY(X)-25×120		120	
BGTMY(X)-12×150		150	BGTMY(X)-25×150		150	
BGTMY(X)-12×200		200	BGTMY(X)-25×200		200	
BGTMY(X)-14×40	14	40	BGTMY(X)-30×30	30	30	
BGTMY(X)-14×120		120	BGTMY(X)-30×40		40	
BGTMY(X)-15×15	15	15	BGTMY(X)-30×50		50	
BGTMY(X)-15×20		20	BGTMY(X)-30×60		60	
BGTMY(X)-15×30		30	BGTMY(X)-30×80		80	
BGTMY(X)-15×40		40	BGTMY(X)-30×100		100	
BGTMY(X)-15×50		50	BGTMY(X)-30×120		120	
BGTMY(X)-15×60		60	BGTMY(X)-30×150		150	
BGTMY(X)-15×80		80	BGTMY(X)-30×200		200	
BGTMY(X)-15×100		100	BGTMY(X)-35×35		35	35
BGTMY(X)-15×120		120	BGTMY(X)-35×70	70		
BGTMY(X)-15×150		150	BGTMY(X)-35×200	200		
BGTMY(X)-15×200	200	BGTMY(X)-40×40	40	40		
BGTMY(X)-16×16	16	16		BGTMY(X)-40×45	45	
BGTMY(X)-16×40		40		BGTMY(X)-40×50	50	
BGTMY(X)-16×50		50		BGTMY(X)-40×60	60	
BGTMY(X)-18×18	18	18		BGTMY(X)-40×80	80	
BGTMY(X)-18×26		26		BGTMY(X)-40×100	100	
BGTMY(X)-20×20	20	20		BGTMY(X)-40×200	200	
BGTMY(X)-20×25		25		BGTMY(X)-50×50	50	50
BGTMY(X)-20×30		30		BGTMY(X)-50×60		60
BGTMY(X)-20×40		40		BGTMY(X)-50×80		80
BGTMY(X)-20×50		50	BGTMY(X)-50×100	100		
BGTMY(X)-20×60		60	BGTMY(X)-60×60	60		60
BGTMY(X)-20×80		80				
BGTMY(X)-20×100		100				
BGTMY(X)-20×120		120				
BGTMY(X)-20×150		150				
BGTMY(X)-20×200	200					
BGTMY(X)-22×34	22	34				
BGTMY(X)-22×80		80				

Customization Upon Request



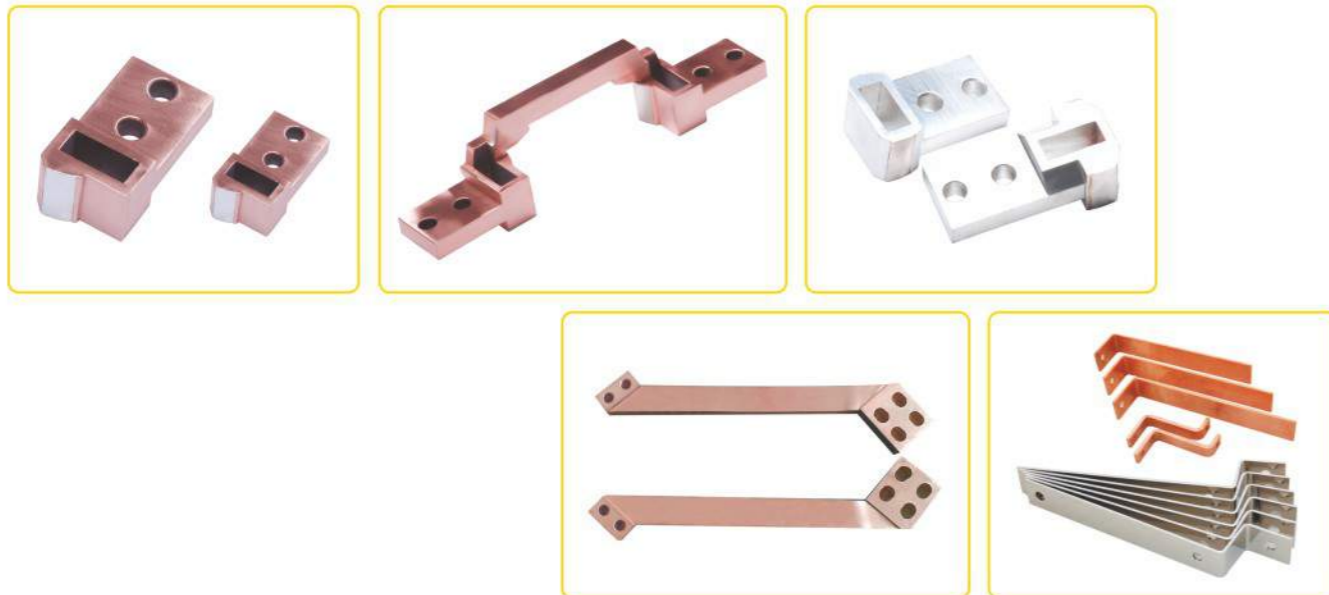
## CUSTOMIZED COPPER BUS BARS AND COPPER PARTS



### 4.3 Customized Copper Bus Bars and Copper Parts

Besides the regular TMY copper bus bars, we can manufacture customized copper bus bars and copper parts in special shapes and sizes. BRIDGOLD owns a professional team of engineers and technician, who can provide you with a professional solution according to your requirements and product application.

Our goal is to create a professional customization-oriented enterprise of flexible copper connectors.



Customization Upon Request

## 4.4 COPPER LUGS AND COPPER ALUMINUM BI-METAL LUGS



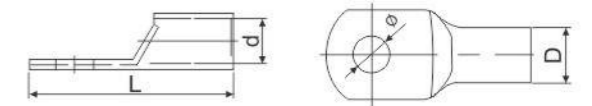
### SC COPPER LUGS

### 4.4.1 SC Copper Lugs

#### TECHNICAL DATA

Material: C11000 copper, copper content  $\geq 99.95\%$

Finish: tin plating



Part No.	Φ(mm)	D(mm)	d(mm)	L(mm)
SC-1.5	Ø4.2, Ø5.2	3.5	1.8	18
SC-2.5	Ø4.2, Ø5.2, Ø6.2	4	2.5	19
SC-4	Ø5.2, Ø6.2	4.8	3.1	21
SC-6	Ø5.2, Ø6.2, Ø8.2	5.5	3.8	24
SC-10	Ø6.2, Ø8.2	6.8	4.8	25.5
SC-16	Ø6.2, Ø8.2, Ø10.5	7.5	5.5	30.5
SC-25	Ø6.2, Ø8.2, Ø10.5	9	7	34
SC-35	Ø6.2, Ø8.2, Ø10.5, Ø12.5	10.5	8.2	38
SC-50	Ø8.2, Ø10.5, Ø12.5	12.5	9.8	45
SC-70	Ø8.2, Ø10.5, Ø12.5	14.5	11.5	50
SC-95	Ø10.5, Ø12.5	17.5	13.8	55.5
SC-120	Ø10.5, Ø16.5	19.5	15.5	63
SC-150	Ø12.5, Ø16.5	21	16.5	71
SC-185	Ø16.5	23.5	18.8	78
SC-240	Ø16.5	26.5	21	92
SC-300	Ø16.5, Ø20.5	30	24	102
SC-400	Ø16.5, Ø20.5	34	26.5	113
SC-500	Ø16.5, Ø20.5	38	30	123
SC-630	Ø20.5	45	35	135
SC-800	Ø22.5	50	39	170
SC-1000	Ø22.5	56	44	200

Customization Upon Request



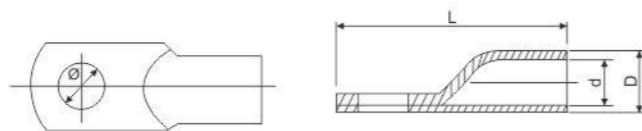
## JG COPPER LUGS



### 4.4.2 JG Copper Lugs

#### TECHNICAL DATA

Material: C11000 copper, copper content  $\geq 99.95\%$   
Finish: tin plating



Part No.	Φ(mm)	D(mm)	d(mm)	L(mm)
JG-10	6.2	8	5	38
JG-16	8.4	9	6	41
JG-25	8.4	10	7	46
JG-35	8.5	11	8	52
JG-50	8.5	13	10	54
JG-70	10.5	16	12	61
JG-95	10.5	18	14	66
JG-120	12.5	20	15	73
JG-150	12.5	23	17	77
JG-185	14.5	25	19	86
JG-240	16.5	27	21	93
JG-300	16.5	31	24	103
JG-400	18.5	34	26	113
JG-500	20.5	38	30	124
JG-630	22.5	45	35	140
JG-800	22.5	50	40	170

Customization Upon Request

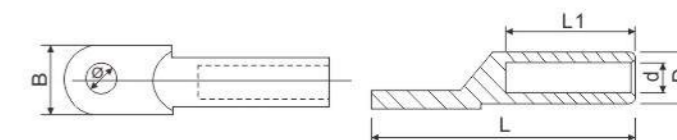
## DT COPPER LUGS



### 4.4.3 DT Copper Lugs

#### TECHNICAL DATA

Material: C11000 copper, copper content  $\geq 99.95\%$   
Finish: no plating



Part No.	Φ(mm)	D(mm)	d(mm)	L(mm)	L1(mm)	B(mm)
DT-10	8.5	9	5.3	62	28	16
DT-16	8.5	10	6.5	68	30	16
DT-25	8.5	11	7	70	33	18
DT-35	10.5	12	8.58	80	36	20.5
DT-50	10.5	14	9.5	85	38	23
DT-70	12.5	16	11.5	95	43	26
DT-95	12.5	18	13.5	104	46	28
DT-120	14.5	20	15	112	49	30
DT-150	14.5	22	16.5	120	51	34
DT-185	16.5	25	18.5	125	55	37
DT-240	16.5	27	21	136	60	40
DT-300	18	31	23.5	155	66	50
DT-400	21	34	26.5	170	75	50
DT-500	21	38	29	190	75	60
DT-630	21	45	35	220	85	80
DT-800	21	50	38	260	85	100

Customization Upon Request



## RNB COPPER LUGS



### 4.4.4 RNB Copper Lugs

#### TECHNICAL DATA

Material: C11000 copper, copper content  $\geq 99.95\%$   
Finish: tin plating



Part No.	Φ (mm)	E (mm)	D (mm)	d (mm)	T (mm)
RNB1-Φ	3.2, 3.7, 4.3, 5.3, 6.4, 8.4, 10.5, 13.0, 17.0	4.8	3.4	1.7	0.75
RNB1-Φ	21.0	4.8	3.4	1.7	0.8
RNB2-Φ	3.2, 3.7, 4.3, 5.3, 6.4, 8.4, 10.5, 13.0, 17.0, 21.0	4.8	4.1	2.3	0.8
RNB3-Φ	4.3, 5.3, 6.4	6.0	5.1	2.9	1.0
RNB5-Φ	3.7, 4.3, 5.3, 6.4, 8.4, 10.5, 13.0, 17.0, 21.0	6.0	5.6	3.4	1.0
RNB8-Φ	3.7, 4.3, 5.3, 6.4, 8.4, 10.5, 13.0	8.5	7.2	4.5	1.2
RNB14-Φ	4.3, 5.3, 6.4, 8.4, 10.5, 11.5, 13.0	10.5	9.0	5.6	1.5
RNB22-Φ	4.3, 5.3, 6.4, 8.4, 10.5, 11.5, 13.0	12.0	11.5	7.7	1.8
RNB38-Φ	5.3, 6.4, 8.4, 10.5, 11.5, 13.0	14.0	13.3	9.4	1.8
RNB60-Φ	6.4, 8.4, 10.5, 11.5, 13.0, 14.0, 15.0, 17.0, 19.0, 21.0, 23.0	18.0	15.4	11.4	1.8
RNB70-Φ	6.4, 8.4, 10.5, 11.5, 13.0, 14.0, 15.0, 17.0, 19.0, 21.0, 23.0	18.0	17.5	13.3	2.2
RNB80-Φ	6.4, 8.4, 10.5, 11.5, 13.0, 14.0, 15.0, 17.0, 19.0, 21.0, 23.0	20.0	19.5	14.5	2.2
RNB100-Φ	6.4, 8.4, 10.5, 11.5, 13.0, 15.0, 17.0, 19.0, 21.0, 23.0	21.0	22.1	16.4	2.6
RNB150-Φ	8.4, 10.5, 11.5, 13.0, 15.0, 17.0, 19.0, 21.0, 23.0, 25.0, 28.0	27.0	26.6	19.5	3.2
RNB180-Φ	8.4, 10.5, 11.5, 13.0, 15.0, 17.0, 19.0, 21.0, 23.0, 25.0, 28.0	28.5	28.6	21.0	3.6
RNB200-Φ	8.4, 10.5, 11.5, 13.0, 15.0, 17.0, 19.0, 21.0, 23.0, 25.0, 28.0	31.5	32.6	24.0	4.0
RNB325-Φ	8.4, 10.5, 11.5, 13.0, 15.0, 17.0, 19.0, 21.0, 23.0, 25.0, 28.0	35.5	37.6	28.0	4.2

Customization Upon Request

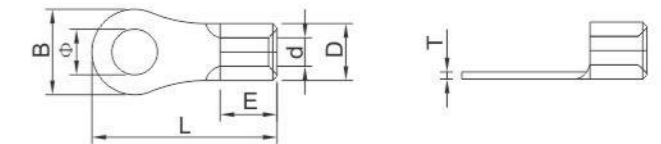
## OT COPPER LUGS



### 4.4.5 OT Copper Lugs

#### TECHNICAL DATA

Material: C11000 copper, copper content  $\geq 99.95\%$   
Finish: silver plating



Part No.	Φ (mm)	E (mm)	D (mm)	d (mm)	T (mm)
OT0.5-Φ	3.2, 4.2	4	2.2	1.2	0.5
OT1-Φ	3.2, 4.3, 5.3, 6.5	5	3.2	1.7	0.7
OT1.5-Φ	3.2, 4.3, 5.3, 6.5, 8.5, 10.5, 12.5, 16.5	5	3.6	2.0	0.7
OT2.5-Φ	3.2, 4.3, 5.3, 6.5, 8.5, 10.5, 12.5, 14.5, 16.5	5	4.2	2.6	0.7
OT4-Φ	4.3, 5.3, 6.5, 8.5, 10.5, 12.5, 14.5, 16.5	6	5.2	3.2	1.0
OT6-Φ	4.3, 5.3, 6.5, 8.5, 10.5, 12.5, 14.5, 16.5	7	6.2	4.2	1.0
OT10-Φ	4.3, 5.3, 6.5, 8.5, 10.5, 12.5, 14.5, 16.5, 18.5, 20.6, 22.6, 24.6, 28.6	8.5	8.0	5.6	1.2
OT16-Φ	6.3, 8.5, 10.5, 12.5	10.5	10.0	7.0	1.5
OT16-Φ	14.5, 16.5, 18.5, 20.6, 22.6, 24.6	14.0	10.0	7.0	1.5
OT25-Φ	6.3, 8.5, 10.5, 12.5, 14.5, 16.5, 18.5, 20.6, 22.6, 24.6, 27.6, 30.6	14.0	12.1	8.5	1.8
OT35-Φ	6.3, 8.5, 10.5, 12.5, 14.5, 16.5, 18.5, 20.6, 22.6, 24.6, 27.6, 37.7	14.0	13.1	9.5	1.8
OT50-Φ	6.3, 8.5, 10.5, 12.5, 14.5, 16.5, 18.5, 20.6, 22.6, 24.6	14.0	15.1	11.5	1.8
OT70-Φ	6.3, 8.5, 10.5, 12.5, 14.5, 16.5, 18.5, 20.6, 22.6, 24.6	18.5	17.5	13.1	2.2
OT95-Φ	8.5, 10.5, 12.5, 14.5, 16.5, 18.5, 20.6, 22.6, 24.6	20.0	19.5	15.1	2.2
OT120-Φ	8.5, 10.5, 12.5, 14.5, 16.5	22.0	22.2	17.0	2.6
OT150-Φ	8.5, 10.5, 12.5, 14.5, 16.5	25.5	24.5	18.1	3.2
OT185-Φ	8.5, 10.5, 12.5, 14.5, 16.5	27.0	27.2	20.0	3.6
OT240-Φ	8.5, 10.5, 12.5, 14.5, 16.5	30.0	32.0	24.0	4.0
OT300-Φ	10.5, 12.5, 14.5, 16.5, 18.5, 21.0	35.0	37.5	29.0	4.2

Customization Upon Request



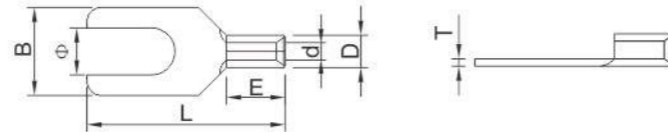
## UT COPPER LUGS



### 4.4.6 UT Copper Lugs

#### TECHNICAL DATA

Material: C11000 copper, copper content  $\geq 99.95\%$   
Finish: tin plating



Part No.	Φ (mm)	E (mm)	D (mm)	d (mm)	T (mm)
UT0.5-Φ	3.2, 4.2	4	2.2	1.2	0.5
UT1-Φ	3.2, 4.2, 5.3, 6.5	5	3.2	1.7	0.7
UT1.5-Φ	3.2, 4.2, 5.3, 6.3, 8.5	5	3.6	2.0	0.7
UT2.5-Φ	3.2, 4.2, 5.3, 6.3, 8.5	5	4.2	2.6	0.7
UT4-Φ	4.2, 5.3, 6.3, 8.5, 10.5	6	5.2	3.2	1.0
UT6-Φ	4.2, 5.3, 6.3, 8.5, 10.5	7	6.2	4.3	1.0
UT10-Φ	4.2, 5.3, 6.3, 8.5, 10.5	8.5	8.0	5.7	1.2
UT16-Φ	5.3, 6.3, 8.5, 10.5	11.0	10.0	7.0	1.5
UT25-Φ	6.5, 8.5, 10.5	14.0	12.1	8.5	1.8
UT35-Φ	6.5, 8.5, 10.5	14.0	13.1	9.5	1.8

Customization Upon Request

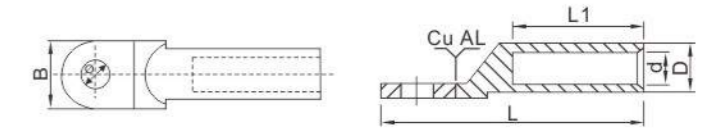
## DTL-1 BI-METAL COPPER-ALUMINUM LUGS



### 4.4.7 DTL-1 Bi-Metal Copper-Aluminum Lugs

#### TECHNICAL DATA

Material: C11000 copper, copper content  $\geq 99.95\%$   
1050 aluminum, aluminum content  $\geq 99.95\%$



Part No.	Φ (mm)	D (mm)	d (mm)	L (mm)	L1 (mm)	B (mm)
DTL-1-10	8.5	10	6	68	28	16
DTL-1-16	8.5	11	6	70	30	16
DTL-1-25	8.5	12	7	75	34	18
DTL-1-35	10.5	14	8.5	85	38	20.5
DTL-1-50	10.5	16	9.8	90	40	23
DTL-1-70	12.5	18	11.5	102	48	26
DTL-1-95	12.5	21	13.5	112	50	28
DTL-1-120	14.5	23	15	120	53	30
DTL-1-150	14.5	25	16.5	126	56	34
DTL-1-185	16.5	27	18.5	133	58	37
DTL-1-240	16.5	30	21	140	60	40
DTL-1-300	21	34	23.5	160	65	50
DTL-1-400	21	38	27	170	70	55
DTL-1-500	21	45	29	225	75	60

Customization Upon Request



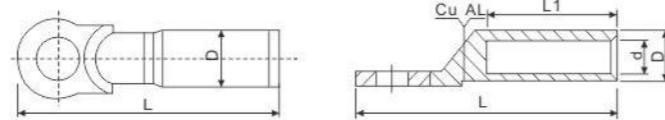
## DTL-2 BI-METAL COPPER-ALUMINUM LUGS



### 4.4.8 DTL-2 Bi-Metal Copper-Aluminum Lugs

#### TECHNICAL DATA

Material: C11000 copper, copper content  $\geq 99.95\%$   
1050 aluminum, aluminum content  $\geq 99.95\%$



Part No.	$\Phi$ (mm)	D (mm)	d (mm)	L (mm)	L1 (mm)
DTL-2-16	13	16	5.5	87	42
DTL-2-25	13	16	6.5	87	42
DTL-2-35	13	16	8	87	42
DTL-2-50	13	20	9	87	43
DTL-2-70	13	20	11	87	43
DTL-2-95	13	20	12.5	87	60
DTL-2-120	13	25	13.5	111	60
DTL-2-150	13	25	15.5	111	60
DTL-2-185	13	32	17.5	116	60
DTL-2-240	13	32	19.5	116	60
DTL-2-300	13	34	22.5	120	62

Customization Upon Request

## CUSTOMIZED COPPER LUGS AND TERMINALS



### 4.5 Customized Copper Lugs and Terminals

Besides the regular copper lugs, we can manufacture customized copper lugs and terminals in special shapes and sizes. BRIDGOLD owns a professional team of engineers and technician, who can provide you with a professional solution according to your requirements and product application.

Our goal is to create a professional customization-oriented enterprise of flexible copper connectors.



Customization Upon Request





## Part 5

### PRODUCTS IN OTHER MATERIALS

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#### 5.1 Aluminum Products

##### 5.1.1 Aluminum Lugs

##### 5.1.2 Aluminum Foil Laminated Connectors

##### 5.1.3 Aluminum Wire Braided Connectors

#### 5.2 Copper Clad Aluminum (CCA) Wire Braided Connectors

#### 5.3 Stainless Steel Wire Braided Connectors

#### 5.4 Special Metal Wire Braids



## 5.1 ALUMINUM PRODUCTS

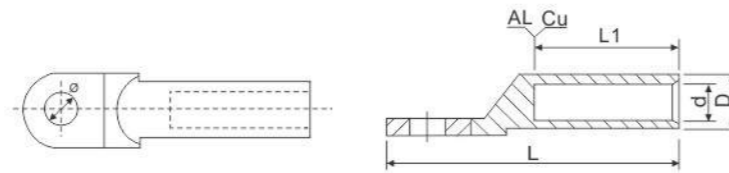
### DL ALUMINUM LUGS



#### 5.1.1 DL Aluminum Lugs

##### TECHNICAL DATA

Material: Aluminum  
Finish: no plating



Part No.	Φ (mm)	D (mm)	d (mm)	L (mm)	L1 (mm)
DL-10	8.5	9	6	68	28
DL-16	8.5	10	6	70	30
DL-25	8.5	8.5	7	75	34
DL-35	10.5	9.8	8.58	85	38
DL-50	13.5	11.5	9.5	90	40
DL-70	15	18	11.5	102	48
DL-95	16.5	21	13.5	112	51
DL-120	18.5	23	15	120	53
DL-150	21	25	16.5	126	56
DL-185	24	27	18.5	133	58
DL-240	26	30	21	140	60
DL-300	29	34	23.5	160	65
DL-400	35	38	26.5	170	70
DL-500	38	47	29	190	75
DL-630	21	54	35	250	85
DL-800	21	60	38	260	100

Customization Upon Request

### LAMINATED ALUMINUM FOIL CONNECTORS



#### 5.1.2 Laminated Aluminum Foil Connectors

##### CONSTRUCTION AND APPLICATION

The flexible flexible aluminum foil laminated connectors are normally used in the lithium batteries for new-energy vehicles. Each single lamination is shaped by one single cutting, and the contact area is welded by molecular diffusion welding technology; the lamination is pressed and heated with each other, and then the contact area is shaped.

The excellent flexible conductivity avoids the fasteners from getting loose during the running process of the vehicles, which may cause bad conductivity of the battery pack, and meanwhile aluminum connectors have light weight.

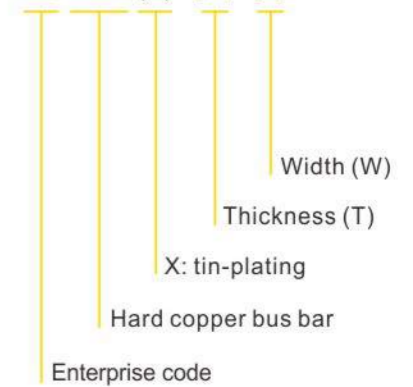
##### TECHNICAL DATA

Material: pure aluminum foil  
Single foil thickness: 0.05mm  
0.10mm  
0.20mm  
0.30mm



##### MODEL AND MEANING

BG TMY (X) - □ × □



Customization Upon Request



# ALUMINUM WIRE BRAIDED CONNECTORS



## 5.1.3 Aluminum Wire Braided Connectors

### CONSTRUCTION AND APPLICATION

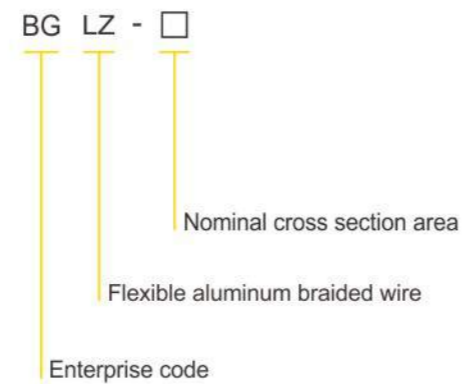
The flexible aluminum braided wires can be used for flexible conduction and grounding connection of electrical installation, switch gear, electrical furnace, storage battery, etc.

The aluminum braided wires have small weight, and corrosion resistance.

### TECHNICAL DATA

- Material: Aluminum wire, 5154, aluminum content ≥ 96.15%
- Single Wire Diameter: 0.18mm (AWG 33)
- Carrier Number: 24, 48
- Cross Sectional Area: 10mm<sup>2</sup> - 50mm<sup>2</sup>
- Packing Modes: in rolls, on spools or wooden drums

### MODEL AND MEANING



Customization Upon Request

Single Wire Diameter: 0.18mm (AWG 33)

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Measured Cross Section (mm <sup>2</sup> )	Wire Structure Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Width Approx. (mm)	Thickness Approx. (mm)
BGLZ-10	10	9.76	24×16×1/0.18	12.0	1.5
		9.76	48×8×1/0.18	13.0	1.2
BGLZ-16	16	15.87	24×26×1/0.18	14.0	2.0
		15.87	48×13×1/0.18	18.0	1.5
BGLZ-25	25	24.41	24×40×1/0.18	16.0	2.2
		16.96	48×20×1/0.18	22.0	1.8
BGLZ-35	35	35.40	24×58×1/0.18	25.0	4.0
		37.23	24×61×1/0.18	22.0	5.0
		35.40	48×29×1/0.18	40.0	4.0
BGLZ-50	50	50.05	24×82×1/0.18	30.0	6.0
		50.05	48×41×1/0.15	45.0	5.0

Customization Upon Request



# ALUMINUM WIRE BRAIDED CONNECTORS



## COPPER CLAD ALUMINUM (CCA) WIRE BRAIDED CONNECTORS



### 5.2 Copper Clad Aluminum (CCA) Wire Braided Connectors

#### CONSTRUCTION AND APPLICATION

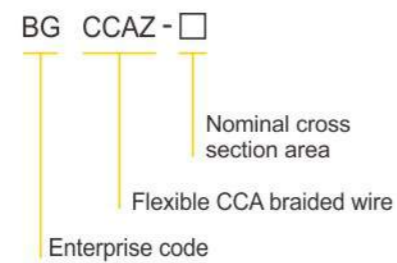
The flexible copper clad aluminum (CCA) braided wires can be used as bridge jumpers in the electrical industry.

The CCA braided wires can be connected with aluminum lugs or copper foils, which are normally used for grounding connection. The regular length between holes of CCA braided connectors are 200mm, 250mm, 280mm, 300mm.

#### TECHNICAL DATA

- Material: Copper clad aluminum wire
- Single Wire Diameter: 0.19mm
- Carrier Number: 24, 48
- Cross Sectional Area: 2.5mm<sup>2</sup> - 6mm<sup>2</sup>
- Packing Modes: in rolls, on spools or wooden drums

#### MODEL AND MEANING



#### Single Wire Diameter: 0.19mm

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Measured Cross Section (mm <sup>2</sup> )	Wire Structure Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Width Approx. (mm)	Thickness Approx. (mm)
BGCCAZ-2.5	2.5	2.72	24×4×1/0.19	5.0	1.0
BGCCAZ-4	4	4.08	48×3×1/0.19	10.0	1.0
BGCCAZ-6	6	5.44	48×4×1/0.19	12.0	1.0

Customization Upon Request

Customization Upon Request

## STAINLESS STEEL BRAIDED WIRE



### 5.3 Stainless Steel Braided Wire

#### CONSTRUCTION AND APPLICATION

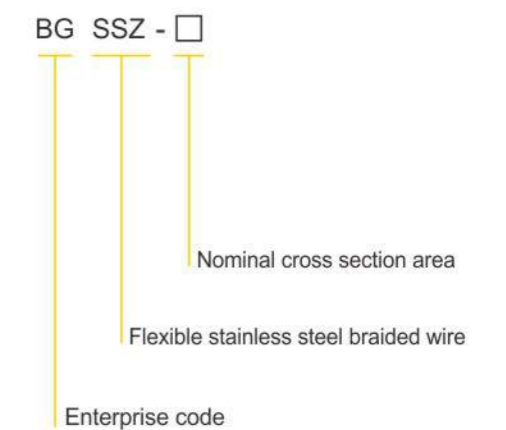
The flexible stainless steel braided wires can be used for flexible conduction and grounding connection of electrical installation, switch gear, electrical furnace, storage battery, etc.

The aluminum braided wires have excellent corrosion resistance and hardness.

#### TECHNICAL DATA

- Material: Stainless steel wire, 304, 316
- Single Wire Diameter: 0.15mm
- Carrier Number: 24, 48
- Cross Sectional Area: 16mm<sup>2</sup> - 95mm<sup>2</sup>
- Packing Modes: in rolls, on spools or wooden drums

#### MODEL AND MEANING



Customization Upon Request



Flexible Stainless Steel Braided Wire-Single Wire Diameter: 0.15mm

Part No.	Nominal Cross Section (mm <sup>2</sup> )	Measured Cross Section (mm <sup>2</sup> )	Wire Structure Strands×Wire Number Per Strand×Layers /Single Wire Diameter (mm)	Width Approx. (mm)	Thickness Approx. (mm)
BGSSZ-16	16	16.96	24×40×1/0.15	16.0	2.2
		16.96	48×20×1/0.15	22.0	1.8
BGSSZ-25	24	25.45	24×60×1/0.15	22.0	3.0
		25.45	48×30×1/0.15	28.0	1.8
BGSSZ-35	35	33.06	24×78×1/0.15	19.0	4.0
		33.93	48×20×2/0.15	26.0	3.5
BGSSZ-50	50	50.02	24×59×2/0.15	26.0	4.0
		50.87	48×30×2/0.15	30.0	3.5
BGSSZ-70	70	66.12	24×78×2/0.15	28.0	5.0
BGSSZ-75	75	76.34	48×90×1/0.15	50.0	5.0
		76.34	48×30×3/0.15	32.0	5.0
BGSSZ-95	95	94.95	48×112×1/0.15	55.0	5.0
		94.95	48×28×4/0.15	35.0	6.0

Customization Upon Request



**SPECIAL METAL WIRE BRAIDS**

5.4 Special Metal Wire Braids

CONSTRUCTION AND APPLICATION

Besides copper wire braids, aluminum wire braids and stainless steel wire braids, we can manufacture special metal wire braids.

**NICKEL WIRE BRAIDS  
SILVER WIRE BRAIDS**

BRIDGOLD owns a professional team of engineers and technician, who can provide you with a professional solution according to your requirements and product application.

Our goal is to create a professional customization-oriented enterprise of flexible copper connectors.

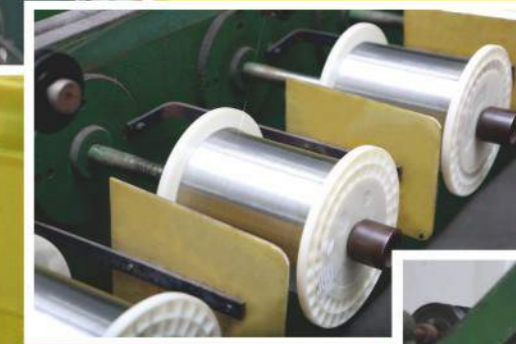
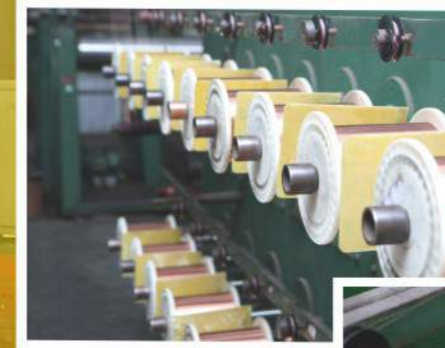


Customization Upon Request



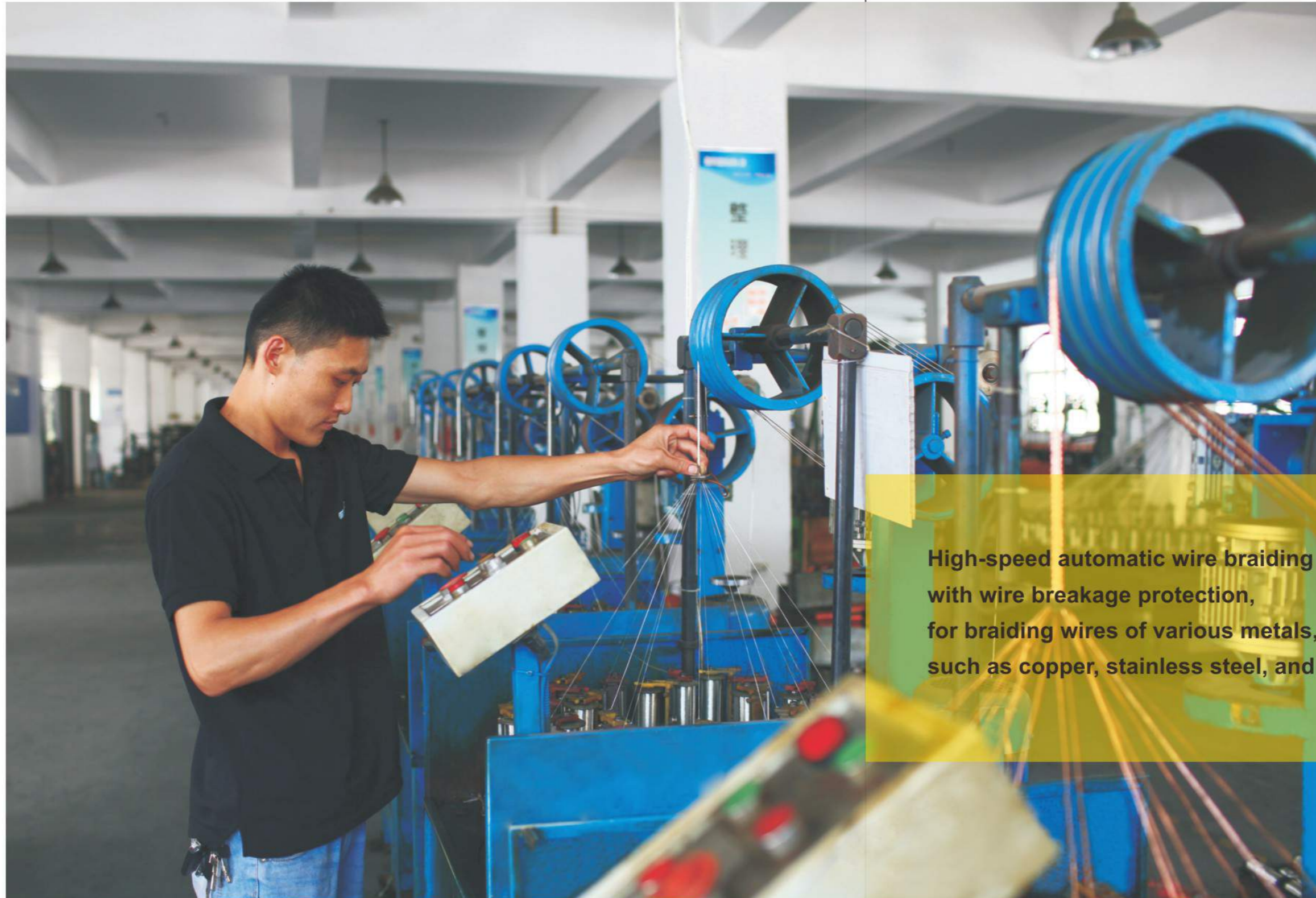
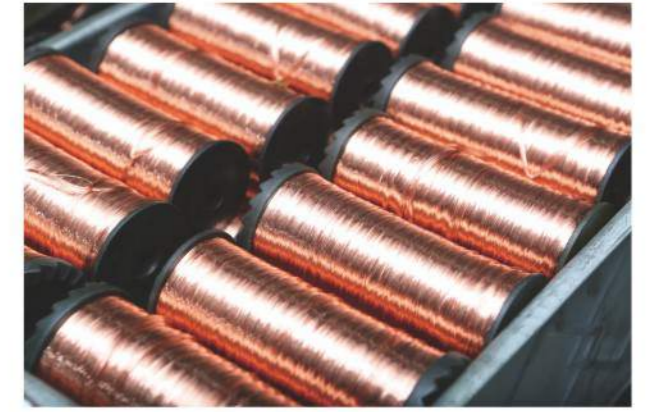


Raw material production workshop,  
environmentally friendly and high-speed.  
Bare copper wire and tinned copper wire  
with single wire diameter of 0.05~3.0mm are processed here.

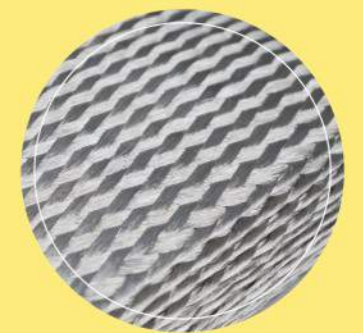




**BRIDGOLD**



High-speed automatic wire braiding machine,  
with wire breakage protection,  
for braiding wires of various metals,  
such as copper, stainless steel, and aluminum.





**BRIDGOLD**



**High quality is our obligation**



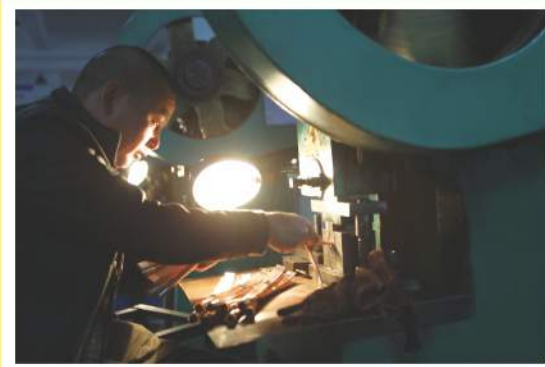


**BRIDGOLD**



**High-speed automatic wire stranding machine,  
low-noise, safe and energy-saving, for various  
stranded wires of 0.3~500mm<sup>2</sup>**

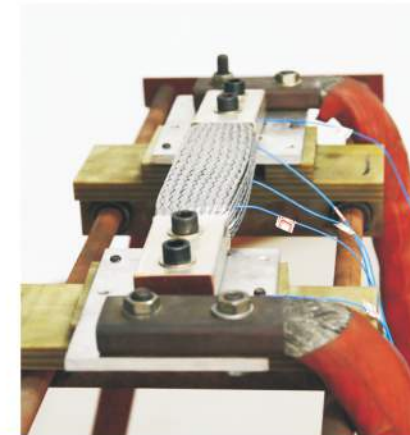




The big family of BRIDGOLD undertake to manufacture good-quality flexible copper connectors.

## Testing and Inspection

BRIDGOLD has the professional laboratory and capacity to conduct various tests, including salt spray test, tensile strength test, elongation test, plating thickness test, DC resistance test, temperature rise test, voltage withstand test, and electrical conductivity test, etc.



► Highly qualified engineers guarantee the quality of FLEXIBLE COPPER CONNECTORS.



**BRIDGOLD**



**BRIDGOLD owns a young  
production management team.**



**A young team creates limitless possibilities  
FOR YOU!**

— *by CEO Xiaoyan Zheng*

