



A Quality **CONNECTING** Experience

www.tieaconnectors.com

TIEA Connectors Pvt. Ltd.

Plot No. SPL-4, Kanakapura Industrial Estate,
Kanakapura, Bengaluru - 562117





Our advantages



Superior Performance

Enhanced fire retardancy and the capability to sustain in the most harsh environmental conditions.



Indigenously Developed

TIEA connectors are fully indigenously developed.



Economical

Market reach at economical prices and flexibility.



IP Focussed

- IP on material science
- IP on lateral latching
- IP on wireless connectors & smart connectors

Our industry focus



OEM's

TIEA associates with OEM companies as their premium ODM partners.



EMS Companies

TIEA is the localisation partner for EMS companies



Wiring Harness

TIEA offers indigenously developed electronic connectors and contact solutions to wiring harness industries.



TIEA partner's with OEMs & EMS companies to fulfill their customised requirements of connectors, contact solutions & precision engineering components. We provide our engineering competency with design capabilities for innovative design and development. Our innovative approach in design and manufacturing deliver higher ROI with lower resource requirement, while maintaining the highest qualities.



- Resources to develop tailor made products and solutions.
- Flexibility in designing the technical features.
- Reliability in planning based upon absolute delivery reliability.
- Time saving, strict quality criteria.
- Very good price - performance ratio



- IPX9K, IPX78 Harsh environment connectors
- Custom connectors
- Insert Molding Components
- New Product Development with inhouse R&D facility and component testing facilities
- High power connectors for EV's
- High-end tool room for new product development

Testing capability



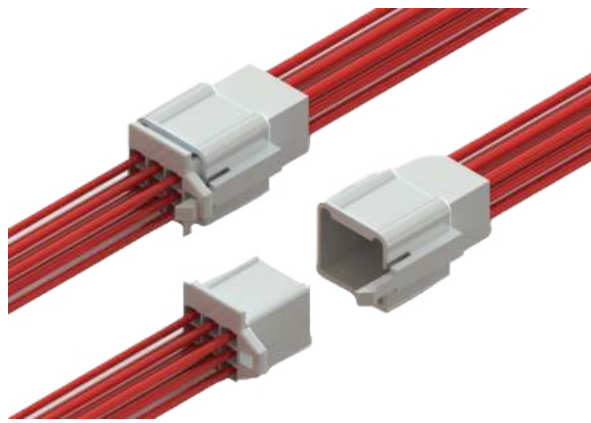
IPX78 Immersion Chamber



Temperature & Humidity Chamber

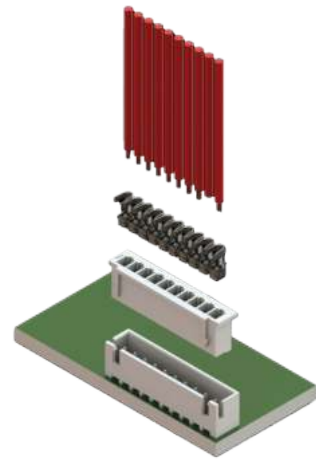
- IPX9 and IPX9k chamber upto 100 bar water pressure and 80°c and water flow upto 252 gallons/hr meeting IEC 60529 and ISO 20653 standard
- IPX7 and IPX8 chamber upto 5bar water depth pressure meeting IEC 60529, IEC 60598, IEC 60335, IEC 60034-5:2000 standard
- IP5X and IP6X sand and dust test chamber with flow rate of minimum 2kg/m³ meeting IEC 60529, IEC 60598, ISO 20653, JIS D0207 F2 & F3
- Temperature chamber capable of testing connector with temperatures upto 200°c temperature cycling method & temperature rise method as per EIA-364-70B, EIA-364-59, EIA-364-31C, IEC 60068-2-38, IEC 60068-2-30, JIS C60068-2-3-1987 std
- Humidity chamber with humidity range from 20% to 98% meeting EIA-364-31B std
- Megaohm meter capable of measuring insulation resistance upto 5,000,000 m ω meeting EIA-364-21C std
- Microohm meter with resistance range from 1 $\mu\omega$ to 29.99k ω meeting EIA-364-21C std
- Dielectric withstand voltage tester

Product summary



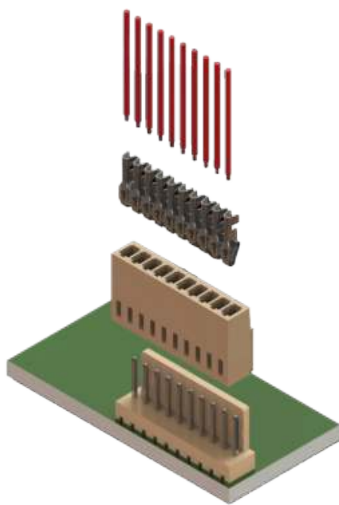
Section
a

**2.80mm
Connectors**



Section
b

**2.50mm
Connectors**



Section
c

**2.54mm
Connectors**



Section
d

**Customised
Terminals**



Section
e

**Harsh environment
Connectors**

Product range

● Harsh Environment Connectors

With enhanced mechanical stability, locking strength and mounting cycles

● Wireless Connectors

Eliminates the usage of wires in power transmission

● FR Grade Connectors

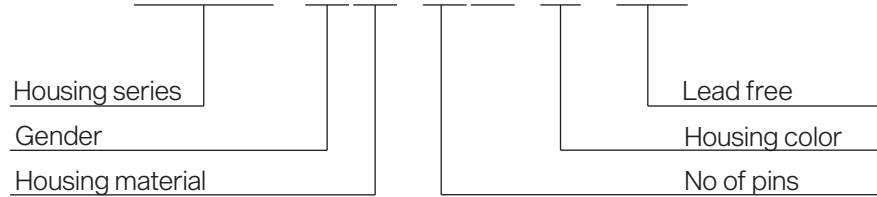
Connectors with enhanced fire retardancy

● Automobile/ Electronic Connectors

Indigenously developed premium connectors and contact solutions

Housing series:

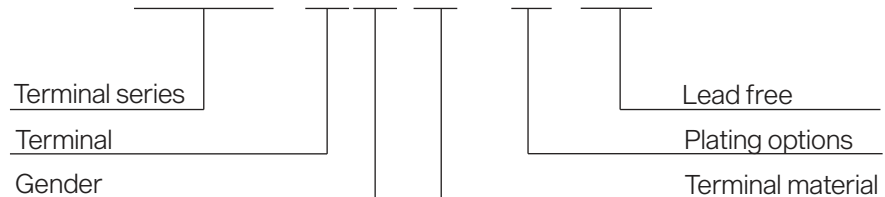
T110-XX-XX-X-LF



Housing series:	Gender	Housing material	No of pins	Housing color
T110-2.8mm Connector	M - Male F - Female	1 - Nylon6 2- Nylon66	02 - 2Pin 03 - 3Pin 04 - 4Pin 05 - 5Pin 06 - 6Pin 07 - 7Pin	0 - Natural/White 1 - Black 2 - Green 3 - Yellow 4 - Red 5 - Blue
T2515-2.50mm Connector		3- Nylon6 UL94-V0	08 - 8Pin 09 - 9Pin 10 - 10Pin	6 - Ivory 7 - Brown
T2510-2.54mm Connector		4- Nylon66 UL94-V0		

Terminal series:

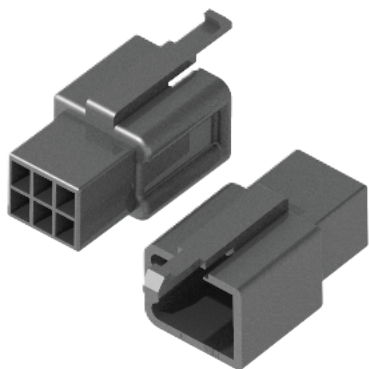
T110-TX-X -X-LF



Housing series:	Gender	Terminal material	Plating options
T110 2.80mm terminal	M - Male	1 - Brass 63/37	0 - No plating
T2515 2.50mm terminal	F - Female	2- Brass 70/30	1 - Tin
T2510 2.54mm terminal		3- Phosphor Bronze	2 - Nickel
F Y-Fork terminal			3 - Gold
T103 LA103 ring terminal			4 - Silver
T104 LA104 ring terminal			
T105 LA105 ring terminal			
T106 LA106 ring terminal			
T187PL 187S terminal with positive lock			
T250D 250S terminal with dimple			
T250 250S terminal with lancing			

2.80mm

Connector male housing



Specifications

Current rating
7A AC/DC (AWG20)

Voltage range
250V AC, DC

Withstand voltage
1000V AC/min

Insulation resistance
1000 M Ω /min

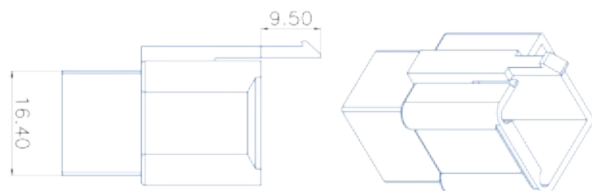
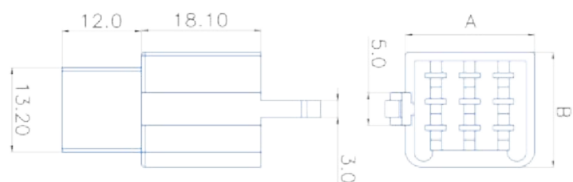
Contact resistance
10mMax. before
environment test

Temperature range
-40°C to 85°C

Reference:

Mates with T110 female housing (T110-MX-XX-X-LF)

Use with TT110 male side feed (T110-TF-XX-LF) terminals.



*All dimensions in mm

A	Part No.	DIM A (in mm)	DIM B (in mm)
2P	T110-M1-2P-X	9.8	13.9
3P	T110-F1-3P-X	9.8	17.9
4P	T110-F1-4P-X	14.8	13.9
6P	T110-F1-6P-X	14.8	17.9
9P	T110-F1-9P-X	19.8	17.9

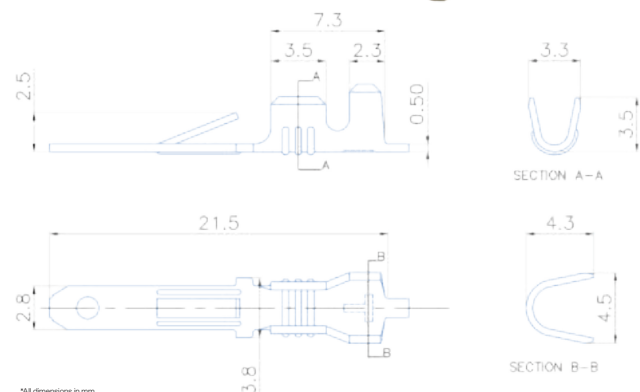
Material

Part	Material
Housing	Nylon 6, Nylon 66

* Available with all color options
Please contact TIEA for selecting color options.

2.80mm

Crimp male end feed terminal



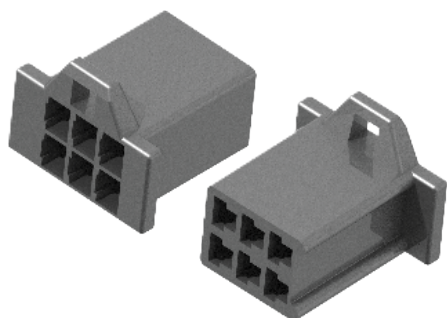
*All dimensions in mm

Ordering information

Part No.	Applicable wire	Qty/reel
	AWG#	Insulation OD (mm)
T110-TM-XX-LF	20-16	2.50-3.00
		6,000

Material

Part	Material	Remarks
T110-TM-XX-LF	Brass 63/37, Brass 70/30, Phosphor Bronze	With Tin/ Nickel plating



Specifications

Current rating
7A AC/DC (AWG20)

Voltage range
250V AC, DC

Withstand voltage
1000V AC/min

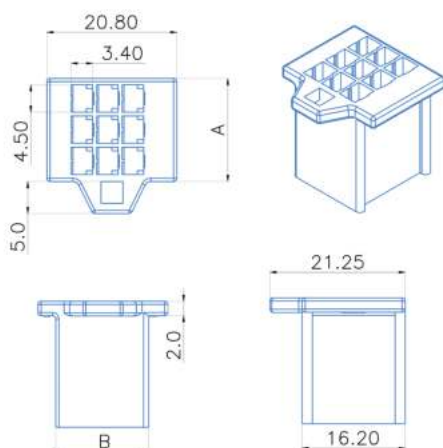
Insulation resistance
1000 M Ω /min

Contact resistance
10m Ω Max. before
environment test

Temperature range
-40°C to 85°C

Reference:

Mates with T110 male housing (T110-MX-XX-X-LF)
Use with TT110 female side feed (T110-TF-XX-LF) terminals.



*All dimensions in mm

A	Part No.	DIM A (in mm)	DIM B (in mm)
2P	T110-F1-2P-X-LF	5.9	10.2
3P	T110-F1-3P-X-LF	5.9	14.2
4P	T110-F1-4P-X-LF	10.9	10.2
6P	T110-F1-6P-X-LF	10.9	14.2
9P	T110-F1-9P-X-LF	15.9	14.2

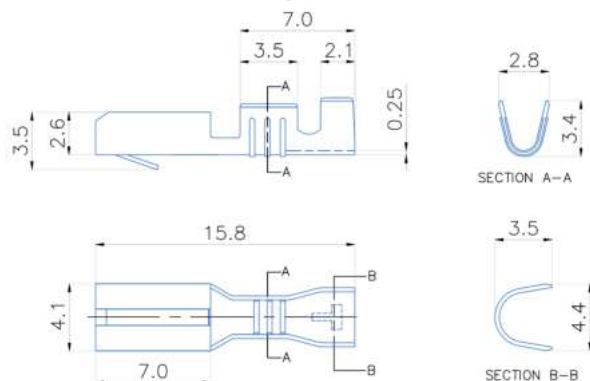
Material

Part	Material
Housing	Nylon 6, Nylon 66

* Available with all color options
Please contact TIEA for selecting color options.

2.80mm

Crimp female side-feed terminal



Ordering information

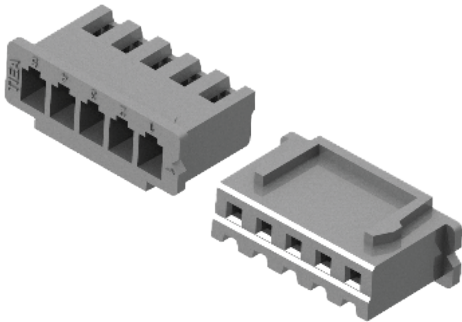
Part No.	Applicable wire		Qty/reel
	AWG#	Insulation OD (mm)	
T110-TF-XX-LF	20-16	2.50-3.00	4,000

Material

Part	Material	Remarks
T110-TF-XX-LF	Brass 63/37, Brass 70/30, Phosphor Bronze	With Tin plating

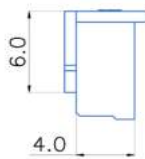
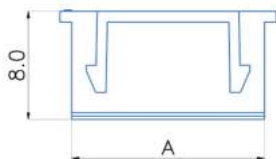
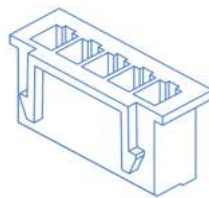
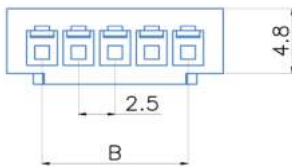
2.50mm

Connector male header



Reference:

Mates with 2515S male headers (T110-MX-XX-X-LF)
Use with 2515S crimp terminals (T110-TF-XX-LF)



*All dimensions in mm

Specifications

Current rating
3A AC/DC (AWG22)

Voltage range
250V AC, DC

Withstand voltage
1000V AC/min

Insulation resistance
1000 M Ω /min

Contact resistance
20m Ω Max. before
environment test

Temperature range
-40°C to 105°C

Part No.	DIM A (in mm)	DIM B (in mm)
T2515-FX-2P-X-LF	5.7	2.5
T2515-FX-3P-X-LF	8.2	5.0
T2515-FX-4P-X-LF	10.7	7.5
T2515-FX-5P-X-LF	13.2	10.0
T2515-FX-6P-X-LF	15.7	12.5
T2515-FX-7P-X-LF	18.2	15.0
T2515-FX-8P-X-LF	20.7	17.5
T2515-FX-9P-X-LF	23.2	20.0
T2515-FX-10P-X-LF	25.7	22.5

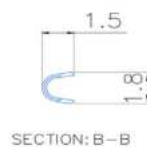
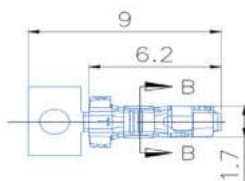
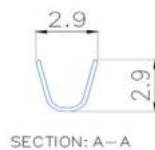
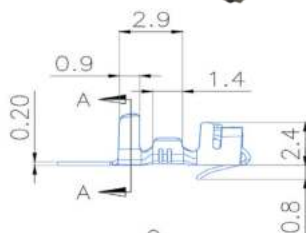
Material

Part	Material
Housing	Nylon 66, UL94V-0

* Available in milky white & ivory color options

2.50mm

Crimp female terminal

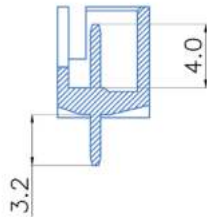
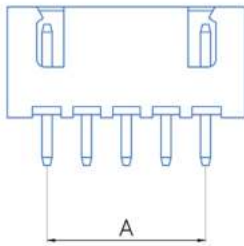
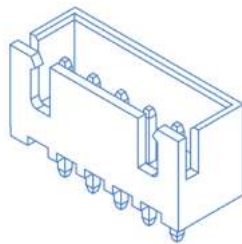
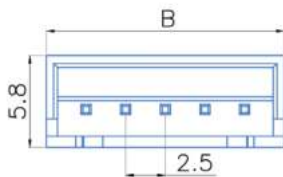
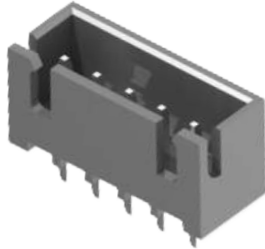


Ordering information

Part No.	Applicable wire		Qty/reel
	AWG#	Insulation OD (mm)	
T2515-TF-XX-LF	28-22	1.20-1.90	6,500

Material

Part	Material	Remarks
T2515-TF-XX-LF	Brass 63/37, Brass 70/30, Phosphor Bronze	With Tin plating



*All dimensions in mm

Specifications

Current rating
3A AC/DC (AWG22)

Voltage range
250V AC, DC

Withstand voltage
1000V AC/min

Insulation resistance
1000 M Ω /min

Contact resistance
20m Ω Max. before
environment test

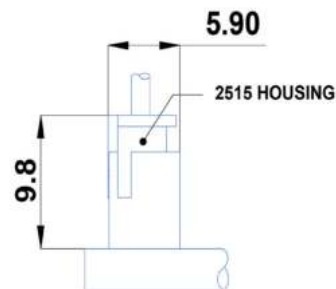
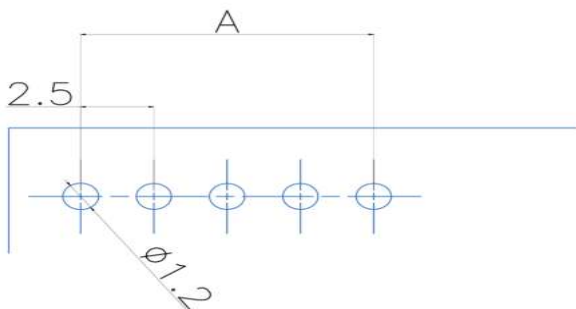
Temperature range
-40°C to 105°C

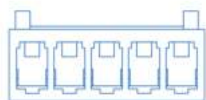
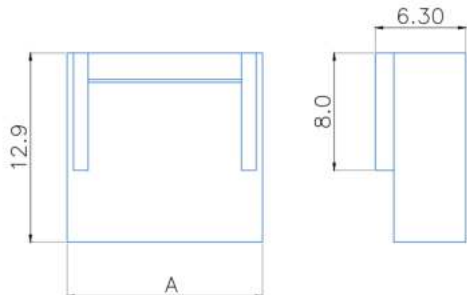
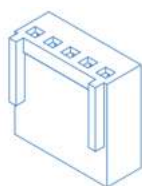
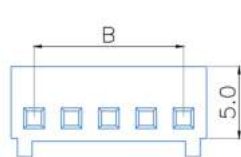
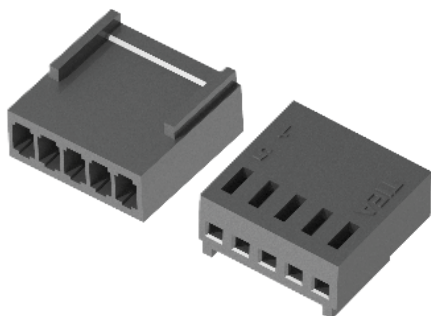
Part No.	No. of poles	DIM A (in mm)	DIM B (in mm)
T2515-MX-02-X-LF	2	2.5	7.4
T2515-MX-03-X-LF	3	5.0	9.9
T2515-MX-04-X-LF	4	7.5	12.4
T2515-MX-05-X-LF	5	10.0	14.9
T2515-MX-06-X-LF	6	12.5	17.4
T2515-MX-07-X-LF	7	15.0	19.9
T2515-MX-08-X-LF	8	17.5	22.4
T2515-MX-09-X-LF	9	20.0	24.9
T2515-MX-10-X-LF	10	22.5	27.4

Material

Part	Material
Housing	Nylon 66, UL94V-0
Contacts	Brass with Tin plating

* Available in milky white & Ivory color options





*All dimensions in mm

Specifications

Current rating
3A AC/DC (AWG22)

Voltage range
250V AC, DC

Withstand voltage
1000V AC/min

Insulation resistance
1000 M Ω /min

Contact resistance
20m Ω Max. before
environment test

Temperature range
-40°C to 105°C

Part No.	DIM A (in mm)	DIM B (in mm)
T2510-FX-2P-X-LF	5.74	2.54
T2510-FX-3P-X-LF	8.28	5.08
T2510-FX-4P-X-LF	10.82	7.62
T2510-FX-5P-X-LF	13.36	10.16
T2510-FX-6P-X-LF	15.90	12.70
T2510-FX-7P-X-LF	18.44	15.24
T2510-FX-8P-X-LF	20.98	17.78
T2510-FX-9P-X-LF	23.52	20.32
T2510-FX-10P-X-LF	26.06	22.86

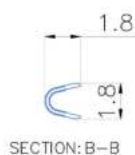
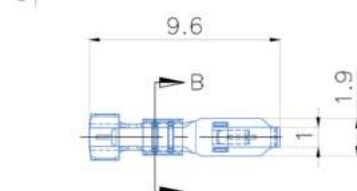
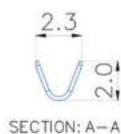
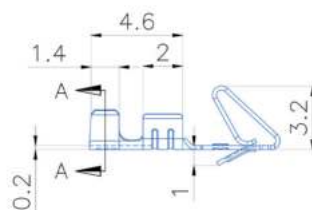
Material

Part	Material
Housing	Nylon 6, Nylon 66, UL94V-0

* Available in milky white , brown & Ivory color options

2.54mm

Crimp female terminal



*All dimensions in mm

Ordering information

Part No.	Applicable wire		Qty/reel
	AWG#	Insulation OD (mm)	
T2510-TF-XX-LF	28-22	1.20-1.90	7,500

Material

Part	Material	Remarks
T2510-TF-XX-LF	Brass 63/37, Brass 70/30, Phosphor Bronze	With Tin/ plating

2.54mm

Male header



Specifications

Current rating
3A AC/DC (AWG22)

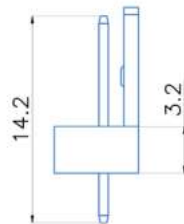
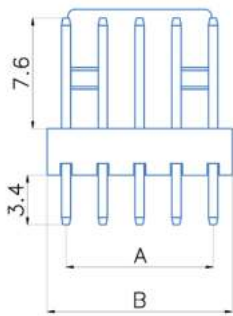
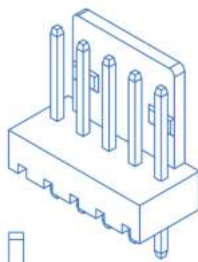
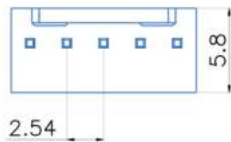
Voltage range
250V AC, DC

Withstand voltage
1000V AC/min

Insulation resistance
1000 M Ω /min

Contact resistance
20m Ω Max. before environment test

Temperature range
-40°C to 105°C



Reference:

*All dimensions in mm

Mates with 2.54mm female housing (T2510-FX-XX-X-LF)

Part No.	No of poles	DIM A (in mm)	DIM B (in mm)
T2510-MX-02-X-LF	2	2.54	5.12
T2510-MX-03-X-LF	3	5.08	7.66
T2510-MX-04-X-LF	4	7.62	10.20
T2510-MX-05-X-LF	5	10.16	12.74
T2510-MX-06-X-LF	6	12.70	15.30
T2510-MX-07-X-LF	7	15.24	17.94
T2510-MX-08-X-LF	8	17.78	20.48
T2510-MX-09-X-LF	9	20.32	23.02
T2510-MX-10-X-LF	10	22.86	25.58

Material

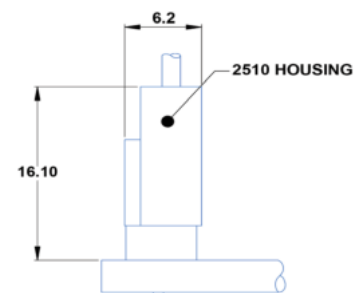
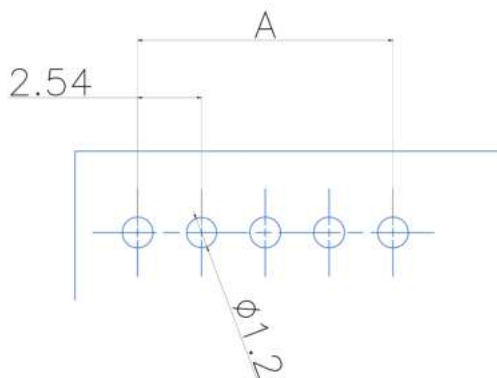
Part	Material
Housing	Nylon 66, UL94V-0
Contacts	Brass with Tin plating

* Available in milky white , brown & Ivory color options

2.54mm

Connector assembly and PCB

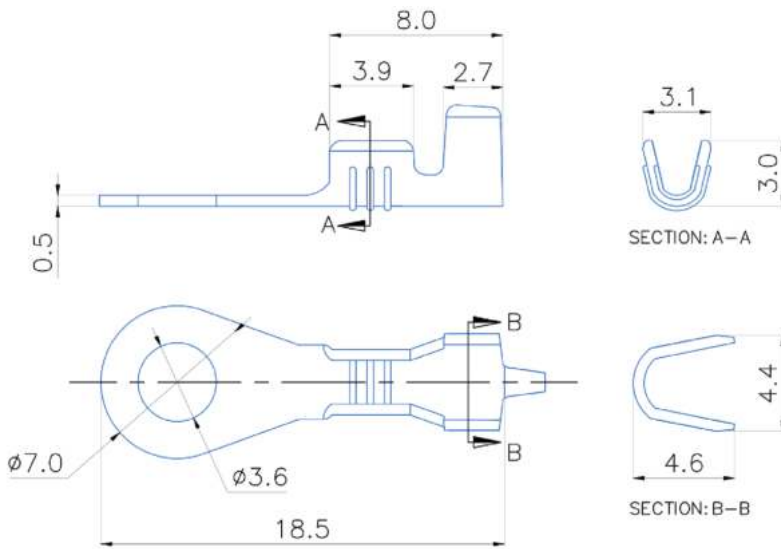
Assembly diagram



*All dimensions in mm

LA103

Chain terminal end feed



*All dimensions in mm

Specifications

Current rating
7A AC/DC (AWG20)

Voltage range
250V AC, DC

Contact resistance
20m Ω Max. before
environment test

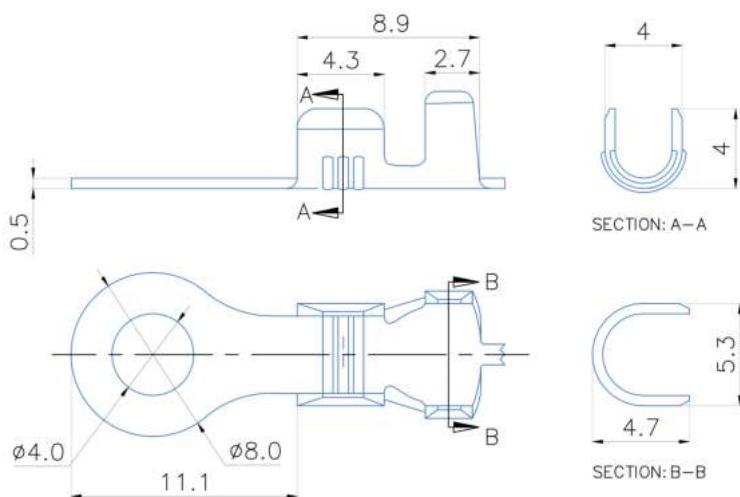
Temperature range
-40°C to 105°C



Part No.	Material	Type	Finish	Wide range AWG#	Thickness (mm)	Insulation Diameter	Qty/reel
T103-TX-1-0-LF	Brass 63/37	End feed	Brass	20-16	0.5	2.5-3.0	5,000
T103-TX-1-1-LF	Brass 63/37	End feed	Tin	20-16	0.5	2.5-3.0	5,000

LA104

Chain terminal end feed



*All dimensions in mm

Specifications

Current rating
7A AC/DC (AWG20)

Voltage range
250V AC, DC

Contact resistance
10m Ω Max. before
environment test

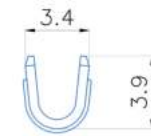
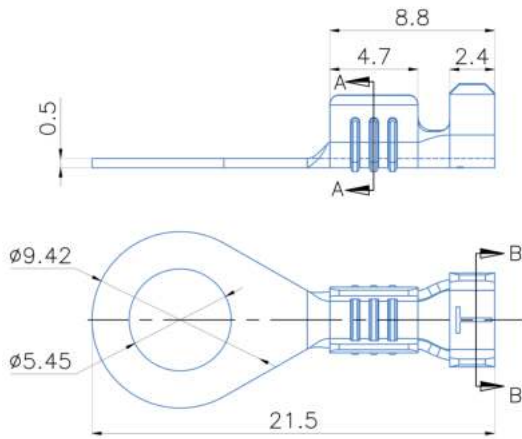
Temperature range
-40°C to 105°C



Part No.	Material	Type	Finish	Wide range AWG#	Thickness (mm)	Insulation Diameter	Qty/reel
T104-TX-1-0-LF	Brass 63/37	End feed	Brass	20-16	0.5	2.5-3.0	4,000
T104-TX-1-0-LF	Brass 63/37	End feed	Tin	20-16	0.5	2.5-3.0	4,000

LA105

Chain terminal end feed



SECTION: A-A



SECTION: B-B

Specifications

Current rating
7A AC/DC (AWG20)

Voltage range
250V AC, DC

Contact resistance
20m Ω Max. before environment test

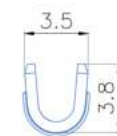
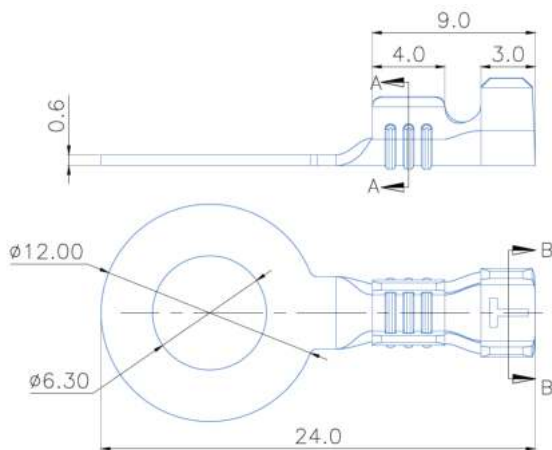
Temperature range
-40°C to 105°C



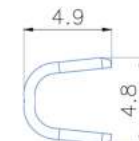
Part No.	Material	Type	Finish	Wide range AWG#	Thickness (mm)	Insulation Diameter	Qty/reel
T105-TX-1-0-LF	Brass 63/37	End feed	Brass	20-16	0.5	2.5-3.0	3,000
T103-TX-1-1-LF	Brass 63/37	End feed	Tin	20-16	0.5	2.5-3.0	3,000

LA106

Chain terminal end feed



SECTION: A-A



SECTION: B-B

Specifications

Current rating
11A AC/DC (AWG20)

Voltage range
250V AC, DC

Contact resistance
10m Ω Max. before environment test

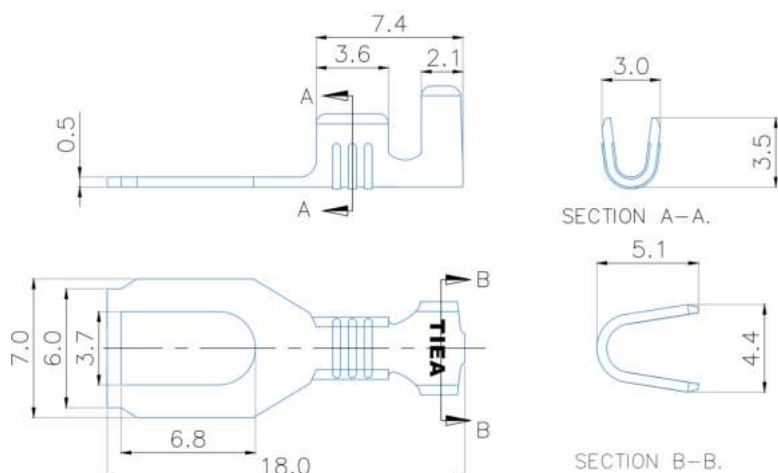
Temperature range
-40°C to 105°C



Part No.	Material	Type	Finish	Wide range AWG#	Thickness (mm)	Insulation Diameter	Qty/reel
T106-TX-1-0-LF	Brass 63/37	End feed	Brass	18-14	0.6	3.0-3.75	2,000
T106-TX-1-0-LF	Brass 63/37	End feed	Tin	18-14	0.6	3.0-3.75	2,000

Y-Type

Fork terminal end feed



Specifications

Current rating
7A AC/DC (AWG20)

Voltage range
250V AC, DC

Contact resistance
20m Ω Max. before environment test

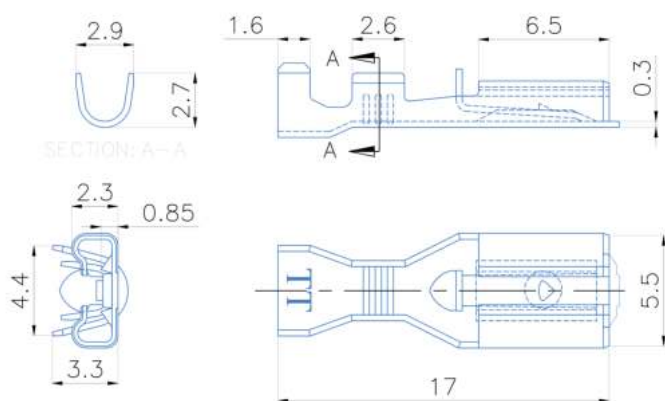
Temperature range
-40°C to 105°C



Part No.	Material	Type	Finish	Wide range AWG#	Thickness (mm)	Insulation Diameter	Qty/reel
F-TX-1-0-LF	Brass 63/37	End feed	Brass	20-16	0.48	2.5-3.0	4,000
F-TX-1-0-LF	Brass 63/37	End feed	Tin	20-16	0.48	2.5-3.0	4,000

187S

Female terminal with positive lock- end feed



Specifications

Current rating
7A AC/DC (AWG20)

Voltage range
250V AC, DC

Contact resistance
10m Ω Max. before environment test

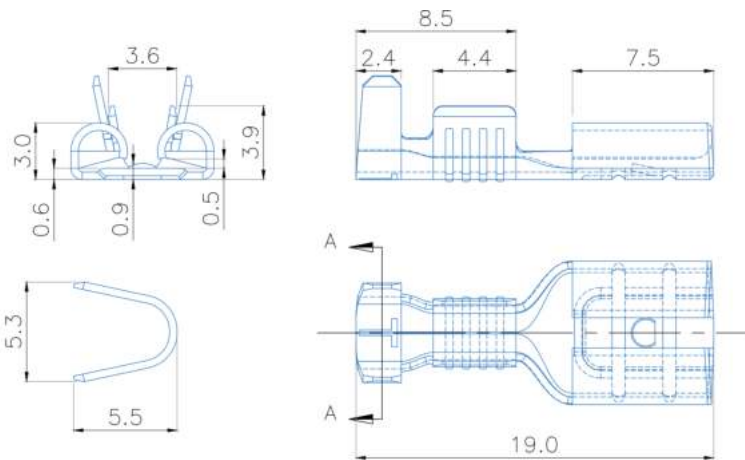
Temperature range
-40°C to 105°C



Part No.	Material	Type	Finish	Wide range AWG#	Thickness (mm)	Insulation Diameter	Qty/reel
T187PL-TF-10-LF	Brass 63/37	End feed	Brass	20-16	0.30	2.5-3.0	5,000
T187PL-TF-10-LF	Brass 70/30	End feed	Brass	20-16	0.30	2.5-3.0	5,000

250s

Female Terminal with dimple-end feed



Specifications

Current rating
7A AC/DC (AWG20)

Voltage range
250V AC, DC

Contact resistance
20m Ω Max. before
environment test

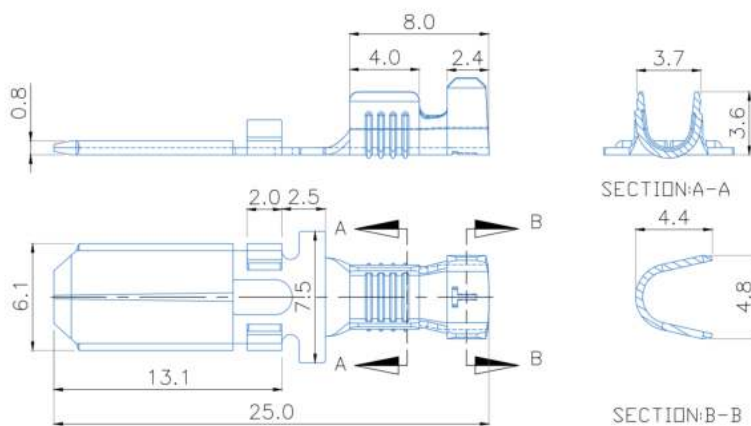
Temperature range
-40°C to 105°C



Part No.	Material	Type	Finish	Wide range AWG#	Thickness (mm)	Insulation Diameter	Qty/reel
TF-250D-TF-10-LF	Brass 63/37	End feed	Brass	20-16	0.40	2.5-3.0	4,000
TF-250D-TF-10-LF	Brass 70/30	End feed	Brass	20-16	0.40	2.5-3.0	4,000

250s

Male terminal with lancing end feed



Specifications

Current rating
7A AC/DC (AWG20)

Voltage range
250V AC, DC

Contact resistance
10m Ω Max. before
environment test

Temperature range
-40°C to 105°C



Part No.	Material	Type	Finish	Wide range AWG#	Thickness (mm)	Insulation Diameter	Qty/reel
T-250M-TF-10-LF	Brass 63/37	End feed	Brass	20-16	0.40	2.5-3.0	4,000
T-250M-TF-10-LF	Brass 70/30	End feed	Brass	20-16	0.40	2.5-3.0	4,000



Registered address

TIEA Connectors Pvt. Ltd.
Plot No. SPL-4,
Kanakapura Industrial Estate,
Kanakapura, Bengaluru - 562117

Sales & Marketing

sales@tieaconnectors.com
Ph: +91-7676267326

