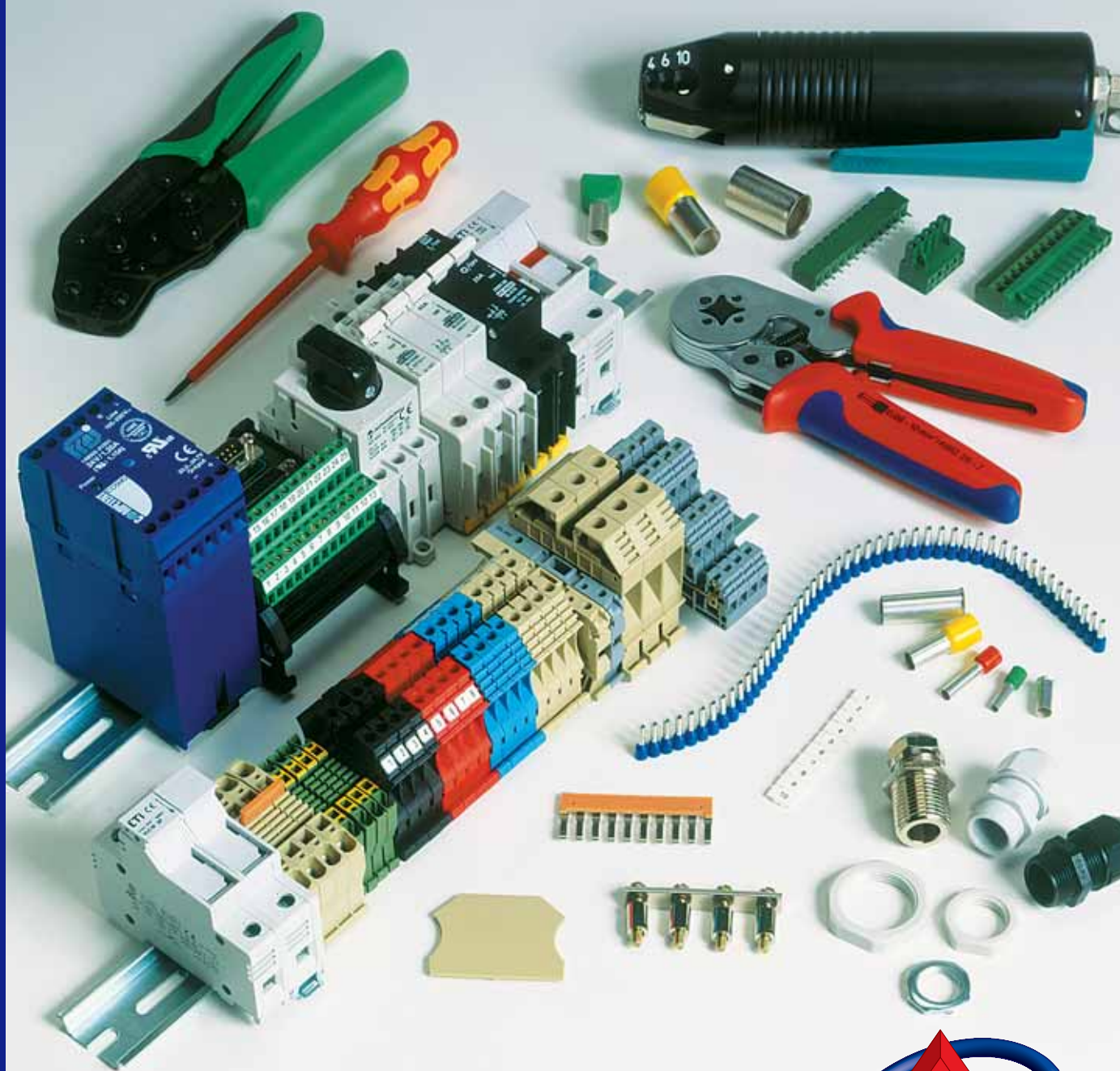




**AMERICAN ELECTRICAL, INC.  
FULL LINE CATALOG**



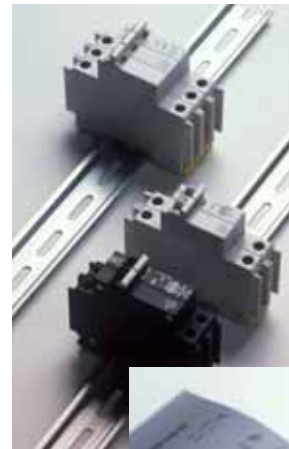


## COMPANY HISTORY

AMERICAN ELECTRICAL, INC. WAS FOUNDED IN 1997 BY THOMAS MCCORMICK, FORMER VICE PRESIDENT OF SALES FOR WEIDMULLER, INC. THE COMPANY CONCEPT WAS BORN OVER LUNCH WITH FELLOW ASSOCIATES LITERALLY ON A NAPKIN. AMERICAN ELECTRICAL, INC. WAS DEVELOPED WITH A SPECIAL GERMAN SUPPLIER RELATIONSHIP – WHO AFTER A BUSINESS MEETING PROVIDED MCCORMICK WITH A PRICE LIST AND A HANDSHAKE. THE COMPANY FLOURISHED DUE TO STRONG FRIENDSHIPS, BUSINESS RELATIONSHIPS, AND PEOPLE WHO WERE UNAFRAID TO HELP A NEW ORGANIZATION GROW. MCCORMICK WILL NEVER FORGET THOSE SPECIAL PEOPLE AND DISTRIBUTORS WHO FIRST HELPED HIM GET STARTED – THANK YOU.

MCCORMICK DREAMED OF A COMPANY THAT RESPONDED QUICKLY, SHIPPED ON TIME AND PROVIDED QUALITY PRODUCTS AT A GREAT PRICE. HE ENVISIONED A WORKPLACE THAT WAS NOT COMPARTMENTALIZED, ONE WHERE EACH PERSON COULD BE RESPONSIBLE FOR THE CUSTOMER THROUGHOUT THE ENTIRE SPECIFICATION/ORDER CHAIN. HE FELT THE SATISFACTION OF THE EMPLOYEES WOULD CREATE A POWERFUL CUSTOMER SERVICE ENTITY WHICH IN RETURN WOULD CREATE CUSTOMER LOYALTY.

MCCORMICK BUILT THE PRODUCT LINES OFFERED BY PARTNERING WITH COMPANIES WHO SPECIALIZED IN A PRODUCT AREA BUT WERE SMALLER IN SCOPE – THE BUSINESSES THAT WERE LOOKING TO BREAK INTO THE U.S. INDUSTRIAL MARKET, BUT WITH NO INTENTIONS OF PUTTING UP BRICK AND MORTAR. TODAY, AMERICAN ELECTRICAL, INC. HAS 10 PRODUCT LINES AND IS STILL GROWING. OUR DEDICATED EMPLOYEES ALL WORK HARD TO SERVE OUR VALUED CUSTOMERS – HELPING THEM TO “THINK INSIDE THE BOX.”



## QUALITY STATEMENT

AMERICAN ELECTRICAL, INC. IS A SUPPLIER OF HIGH QUALITY INDUSTRIAL ELECTRICAL ACCESSORIES. ALL OF OUR PRODUCTS ARE MANUFACTURED IN ACCORDANCE TO INTERNATIONAL STANDARDS, SUCH AS UL, CSA, CE AND MORE.

### **RoHS** (EU DIRECTIVE 2002/95/EC):

WE CERTIFY ALL OF OUR PRODUCTS COMPLY WITH THE RoHS DIRECTIVE OF JANUARY 27, 2003. ALL PRODUCT LINES ARE FREE OF BANNED SUBSTANCES TO INCLUDE LEAD, MERCURY, CADMIUM, HEXAVALENT CHROMIUM, PBB AND PBDE.



## OUR CORE BELIEFS

WE HAVE AN ACRONYM WE CALL “FAST” THAT HAS BOTH A TRUE AND UNDERLYING MEANING. OF COURSE THE UNDERLYING MESSAGE TO OUR CUSTOMERS IS THAT WE TRY TO DO THINGS AS QUICKLY AS POSSIBLE. WHETHER THAT’S A QUOTATION, PRICE CHECK, AVAILABILITY QUESTION, SHIPPING OR INFORMATION REQUEST – WE DO IT NOW – WE KNOW AND UNDERSTAND THAT THERE ARE EAGER CUSTOMERS OR POTENTIAL CUSTOMERS WAITING ON US AND THEIR TIME IS AS VALUABLE AS OURS.

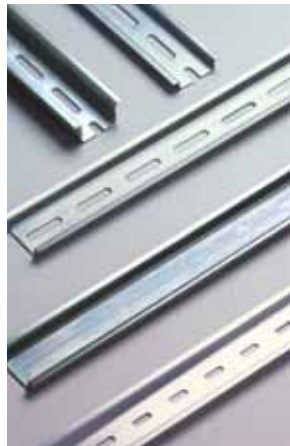
OUR WORD FAST ALSO HAS A DEFINITIVE MEANING:

**F** – TO BE FLEXIBLE IN OUR ABILITY TO SERVE THE CUSTOMER, TO BE ABLE TO EFFECTIVELY WEAR THE DIFFERENT “HATS” THAT ARE REQUIRED IN A SMALLER ORGANIZATION AND TO HAVE THE CUSTOMERS’ SERVICE ISSUES IN MIND AT ALL TIMES.

**A** – TO BE ACCURATE IN EVERYTHING WE DO – FROM SPECIFICATION TO DELIVERY. WE UNDERSTAND THE CONSEQUENCES OF MISTAKES AND THE DOMINO EFFECT THEY CAN HAVE ON THE PRACTICES OF OUR CUSTOMERS AND OUR COMBINED BUSINESSES. MISTAKES COST MONEY AND TIME. WE SEEK THE PROPER TRAINING TO INSURE THAT WE FOLLOW THE CORRECT PROCEDURES AND HAVE THE PRODUCT KNOWLEDGE NECESSARY TO BE CORRECT. WE KNOW THAT WE NEED TO DO IT RIGHT ALL THE TIME TO ELIMINATE THE NECESSITY TO DO IT OVER.

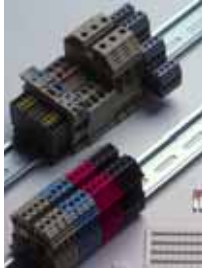
**S** – TO ACT WITH SPEED IN ALL THAT WE DO. WE KNOW THE CUSTOMER WAITS FOR OUR RESPONSE OR OUR PRODUCTS AND WE DO NOT NEED TO WASTE THAT TIME – FOR WE UNDERSTAND THAT TIME IS MONEY. WE WANT TO BE ABLE TO SHIP TODAY, QUOTE AND SPECIFY NOW, FAX IMMEDIATELY, CONFIRM ORDERS ON RECEIPT – RESPOND NOW. FOR WE KNOW THAT THIS WILL WIN OUR CUSTOMERS’ SUPPORT AND FUTURE BUSINESS AND TRUST.

**T** – TO ACT AS A TEAM SO THAT OUR EFFORT IS MULTIPLIED TO PRODUCE A MUCH GREATER RESULT FOR OUR CUSTOMERS. TO HAVE THE POSITIVE ATTITUDE THAT IS SO COMMON IN WINNERS. THE UNDERSTANDING THAT PEOPLE WANT TO BE WINNERS AND WORK WITH WINNERS – WITH PEOPLE WHO ARE SUCCESSFUL NOT ONLY IN WHAT THEY DO BUT HOW THEY WORK TOGETHER. WE ARE A TEAM WHO ACTS AS ONE ON BEHALF OF OUR DEDICATED CUSTOMERS, WHOM WE WOULD BE NOTHING WITHOUT.





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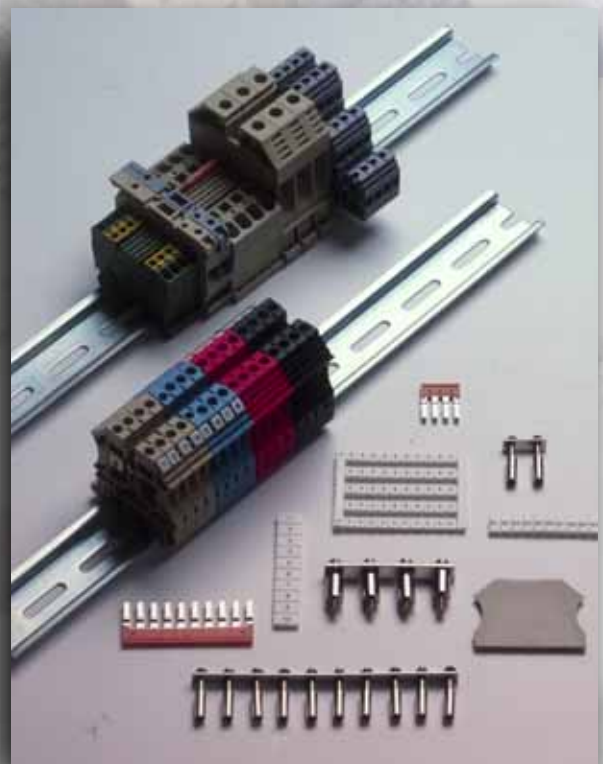
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## DIN RAIL MOUNTED TERMINAL BLOCKS

AMERICAN ELECTRICAL OFFERS THE KLEMSAN LINE OF COST, SPACE AND TIME SAVING TERMINAL BLOCKS. THE TERMINAL BLOCKS ARE DIN RAIL MOUNTABLE AND CAN BE INSTALLED INTO VARIOUS CONFIGURATIONS QUICKLY. KLEMSAN HAS OVER 30 YEARS OF TERMINAL BLOCK HISTORY WITH ALL INTERNATIONAL APPROVALS. AMERICAN ELECTRICAL AND KLEMSAN PARTNERED IN 2002 TO BE THE FIRST AND ONLY SUPPLIER OF KLEMSAN TERMINAL BLOCKS IN THE UNITED STATES.

MODULAR TERMINAL BLOCKS ARE USED WORLDWIDE. OUR TERMINAL BLOCKS ARE USED IN ANY MACHINE CONTROL INTERFACE APPLICATION. WE SELL INTO THE PROCESS AND MACHINE CONTROL MARKETS AS WELL AS BUILDING AUTOMATION.



## MATERIALS AND FUNCTION

**HOUSINGS** – THE PLASTIC HOUSING HOLDING THE METALLIC SCREWS AND CLAMPS IS MADE OF UL 94 V2 (105 DEGREE C) THERMOPLASTIC POLYAMIDE 6.6. THIS PLASTIC AND ITS CERTIFICATION ALLOW OPERATION RATED AT 600V, PROVIDING AMPLE DIELECTRIC STRENGTH FOR ANY INDUSTRIAL APPLICATION.

**CLAMPS** - STEEL IS ONE OF THE STRONGEST MATERIALS AVAILABLE FOR ITS VALUE. THE CLAMPS ARE ZINC PLATED TO GUARD AGAINST CORROSION. WHEN PROPERLY TORQUED, THE CLAMP IS DESIGNED TO SELF-LOCK.

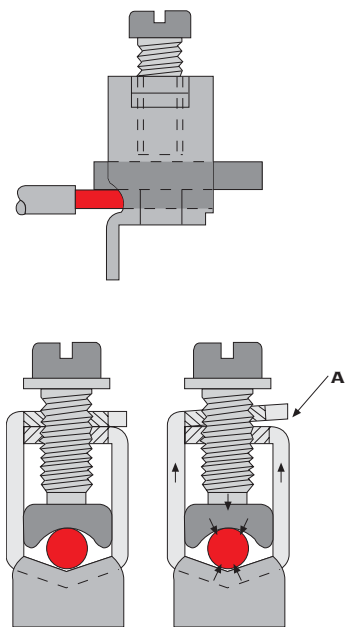
**SCREWS** – MADE OF STEEL AS WELL, THE SCREWS ACT AS A SYSTEM WITH THE CLAMPS – THIS SYSTEM REQUIRES THE SAME MATERIALS FOR EACH COMPONENT. THE SCREWS LIFT AND HELP TO SELF-LOCK THE CLAMPS PROVIDING A DOWNWARD FORCE ONTO THE CONDUCTORS. THE SCREWS ARE ALSO PLATED WITH A ZINC FINISH TO PREVENT ANY FORM OF CORROSION.

## CONNECTION TYPES

### SCREW CONNECTION

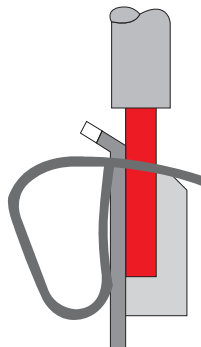
THIS IS THE MOST POPULAR OF ALL KNOWN CONNECTION METHODS. SCREW CONNECTION REFERS TO ANY CONNECTION IN WHICH THE CONDUCTOR IS STRIPPED OF ITS INSULATION AND CLAMPED WITHOUT ANY PREPARATION.

WHEN THE SCREW IS TIGHTENED, THE PRESSURE PULLS APART BOTH HALVES OF THE CLAMPING YOKE. THIS GENERATES A HIGH LOCKING ACTION ON THE SCREW AND PROVIDES EXCELLENT VIBRATION RESISTANCE.



## TENSION CLAMP SYSTEM

TENSION CLAMP CONNECTION ALLOWS THE CONDUCTOR TO BE PRESSED DIRECTLY AGAINST THE CURRENT BAR. THE CLAMP IS OPENED WITH A SCREWDRIVER ALLOWING THE INSERTION OF THE CONDUCTOR.



## ACCESSORIES



**END PLATE** – TERMINAL BLOCKS ARE MANUFACTURED WITH ONE OPEN END ALLOWING SIDE BY SIDE PLACEMENT. AN END PLATE IS NECESSARY FOR THE LAST TERMINAL BLOCK IN THE ASSEMBLY ENABLING FULL ENCLOSURE.



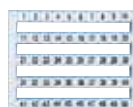
**PARTITION** – THE PARTITION ALLOWS VISUAL SEPARATION OF CIRCUITS AND FOR ELECTRICAL SEPARATION DUE TO ADJACENT CROSS CONNECTIONS.



**END BRACKET** – TO PREVENT TERMINAL BLOCKS FROM FALLING OFF THE DIN RAIL, THEY MUST BE SECURED ON EACH SIDE. THIS IS ACCOMPLISHED WITH END BRACKETS SCREWED ONTO THE RAIL. TWO END BRACKETS ARE NECESSARY – ONE ON EACH SIDE OF THE CONTINUOUS ASSEMBLY DESIGNED.



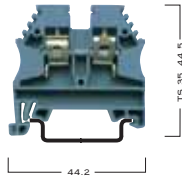
**CROSS CONNECTIONS** – CROSS CONNECTIONS DISTRIBUTE POTENTIALS WITHIN AN ASSEMBLY. STANDARD POLES OF 2, 3, 4, OR 10 ARE AVAILABLE TO SATISFY YOUR DESIGN REQUIREMENTS



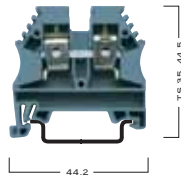
**MARKING TAG** – MARKING TAGS ARE USED FOR CIRCUIT IDENTIFICATION AND EASIER TROUBLESHOOTING. WE HAVE MANY NUMBERS AND LETTERS AVAILABLE THAT WILL MAKE YOUR DESIGNED ASSEMBLY UNIQUE. HORIZONTAL MARKERS FOR DIN RAIL MOUNTED HORIZONTALLY AND VERTICAL FOR ASSEMBLIES MOUNTED VERTICALLY.



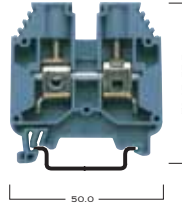


**AVK 6**WIDTH 8 MM  
304 140

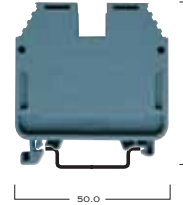
TORQUE: 0.8 NM

**AVK 10**WIDTH 10 MM  
304 150

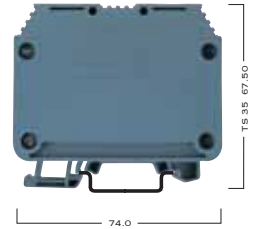
TORQUE: 1.2 NM

**AVK 16**WIDTH 12 MM  
304 160

TORQUE: 1.2 NM

**AVK 35**WIDTH 16 MM  
304 170

TORQUE: 2.5 NM

**AVK 70**WIDTH 22 MM  
304 190

TORQUE: 6 NM

|                                    |                                    |                                    |                                     |                                      |
|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|--------------------------------------|
| 750V ~ / 44 A / 6 MM <sup>2</sup>  | 750V ~ / 61 A / 10 MM <sup>2</sup> | 750V ~ / 82 A / 16 MM <sup>2</sup> | 750V ~ / 135 A / 35 MM <sup>2</sup> | 750V ~ / 192 A / 70 MM <sup>2</sup>  |
| 630 V ~ / 41 A / 6 MM <sup>2</sup> | 630V ~ / 57 A / 10 MM <sup>2</sup> | 750V ~ / 76 A / 16 MM <sup>2</sup> | 750V ~ / 125 A / 35 MM <sup>2</sup> |                                      |
| 600V ~ / 50 A / AWG 26-8           | 600V ~ / 65 A / AWG 16-6           | 600V ~ / 85 A / AWG 12-4           | 600V ~ / 115 A / AWG 10-2           | 600V ~ / 175 A / AWG 6-2/0           |
| 630V ~ / 36 A / 6 MM <sup>2</sup>  | 500V ~ / 50 A / 10 MM <sup>2</sup> | 630V ~ / 66 A / 16 MM <sup>2</sup> | 630V ~ / 109 A / 35 MM <sup>2</sup> | 1000V ~ / 167 A / 70 MM <sup>2</sup> |
| 12 MM                              | 12 MM                              | 16 MM                              | 18 MM                               | 20 MM                                |
| 0.5 – 10 MM <sup>2</sup>           | 1.5 – 16 MM <sup>2</sup>           | 1.5 – 16 MM <sup>2</sup>           | 6 – 16 MM <sup>2</sup>              | 10 – 16 MM <sup>2</sup>              |
| 1.5 – 6 MM <sup>2</sup>            | 1.5 – 10 MM <sup>2</sup>           | 1.5 – 16 MM <sup>2</sup>           | 10 – 35 MM <sup>2</sup>             | 10 – 70 MM <sup>2</sup>              |
| 26 – 8                             | 16 – 6                             | 14 – 4                             | 8 – 1                               | 6 – 2/0                              |
| PART No. STD. PK.                  | PART No. STD. PK.                  | PART No. STD. PK.                  | PART No. STD. PK.                   | PART No. STD. PK.                    |
| <b>304 140 100</b>                 | <b>304 150 100</b>                 | <b>304 160 50</b>                  | <b>304 170 50</b>                   | <b>304 190 10</b>                    |
| TYPE PART No. STD. PK.             | TYPE PART No. STD. PK.             | TYPE PART No. STD. PK.             | TYPE PART No. STD. PK.              | TYPE PART No. STD. PK.               |
| SLOTTED                            | SLOTTED                            | SLOTTED                            | SLOTTED                             | SLOTTED                              |
| 35x7.5 <b>TS3575SL</b> 2M          | 35x7.5 <b>TS3575SL</b> 2M          | 35x7.5 <b>TS3575SL</b> 2M          | 35x7.5 <b>TS3575SL</b> 2M           | 35x7.5 <b>TS3575SL</b> 2M            |
| 35x7.5 <b>TS3575SL1</b> 1M         | 35x7.5 <b>TS3575SL1</b> 1M         | 35x7.5 <b>TS3575SL1</b> 1M         | 35x7.5 <b>TS3575SL1</b> 1M          | 35x7.5 <b>TS3575SL1</b> 1M           |
| 35x7.5 <b>TS3575SL1-A</b> 1M       | 35x7.5 <b>TS3575SL1-A</b> 1M       | 35x7.5 <b>TS3575SL1-A</b> 1M       | 35x7.5 <b>TS3575SL1-A</b> 1M        | 35x7.5 <b>TS3575SL1-A</b> 1M         |
| 35x15 <b>TS3515SL</b> 2M           | 35x15 <b>TS3515SL</b> 2M           | 35x15 <b>TS3515SL</b> 2M           | 35x15 <b>TS3515SL</b> 2M            | 35x15 <b>TS3515SL</b> 2M             |
| SOLID                              | SOLID                              | SOLID                              | SOLID                               | SOLID                                |
| 35x7.5 <b>TS3575SOL</b> 2M         | 35x7.5 <b>TS3575SOL</b> 2M         | 35x7.5 <b>TS3575SOL</b> 2M         | 35x7.5 <b>TS3575SOL</b> 2M          | 35x7.5 <b>TS3575SOL</b> 2M           |
| 35x15 <b>TS3515SOL</b> 2M          | 35x15 <b>TS3515SOL</b> 2M          | 35x15 <b>TS3515SOL</b> 2M          | 35x15 <b>TS3515SOL</b> 2M           | 35x15 <b>TS3515SOL</b> 2M            |
| KD 3 <b>495 049</b> 100            | KD 3 <b>495 049</b> 100            | KD 3 <b>495 049</b> 100            | KD 3 <b>495 049</b> 100             | KD 3 <b>495 049</b> 100              |
|                                    |                                    |                                    |                                     |                                      |
| NPP 2.5-10 <b>444 120</b> 100      | NPP 2.5-10 <b>444 120</b> 100      | NPP 16 <b>444 160</b> 100          |                                     |                                      |
|                                    |                                    |                                    |                                     |                                      |
|                                    |                                    |                                    |                                     |                                      |
| AD 1 <b>467 919</b> 100            | AD 1 <b>467 919</b> 100            |                                    |                                     |                                      |
|                                    |                                    |                                    |                                     |                                      |
| UK 6/2 <b>474 142</b> 25           | UK 10/2 <b>474 152</b> 25          | UK 162/2 <b>474 162</b> 25         | UK 35/2 <b>474 172</b> 25           |                                      |
| UK 6/3 <b>474 143</b> 20           | UK 10/3 <b>474 153</b> 20          | UK 16/3 <b>474 163</b> 20          | UK 35/3 <b>474 173</b> 20           |                                      |
| UK 6/4 <b>474 144</b> 15           | UK 10/4 <b>474 154</b> 15          | UK 16/4 <b>474 164</b> 15          | UK 35/4 <b>474 174</b> 15           |                                      |
| UK 6/10 <b>474 149</b> 5           | UK10/10 <b>474 159</b> 5           | UK 16/10 <b>474 169</b> 5          | UK 35/10 <b>474 179</b> 5           |                                      |
| TF (Ø2.3) <b>493 023</b> 5         | TF (Ø2.3) <b>493 023</b> 5         | TF (Ø4) <b>493 040</b> 5           | TF (Ø4) <b>493 040</b> 5            |                                      |
| TF (Ø4) <b>493 040</b> 5           | TF (Ø4) <b>493 040</b> 5           |                                    |                                     |                                      |
| TSK 4 (Ø2.3) <b>490 040</b> 5      | TSK 4 (Ø2.3) <b>490 040</b> 5      | TSK 8 (Ø4) <b>490 080</b> 5        | TSK 9 (Ø4) <b>490 090</b> 5         |                                      |
| TSK 7 (Ø4) <b>490 070</b> 5        | TSK 7 (Ø4) <b>490 070</b> 5        |                                    |                                     |                                      |
| ITK 28 (Ø4) <b>492 010</b> 5       | ITK 28 (Ø4) <b>492 010</b> 5       | ITK 32 (Ø4) <b>492 020</b> 5       |                                     |                                      |
| IP 2 S <b>498 130</b> 25           | IP 2 S <b>498 130</b> 25           | IP 2 S <b>498 130</b> 25           | IP 2 S <b>498 130</b> 25            |                                      |
| IP 2 <b>498 140</b> 25             | IP 2 <b>498 140</b> 25             | IP 2 <b>498 140</b> 25             | IP 2 <b>498 140</b> 25              |                                      |
|                                    |                                    |                                    |                                     |                                      |
| GE <b>496 119</b> 50               | GE <b>496 119</b> 50               | GE <b>496 119</b> 50               | GE <b>496 119</b> 50                | GE <b>496 119</b> 50                 |
| GE 2 <b>496 250</b> 25             | GE 2 <b>496 250</b> 25             | GE 2 <b>496 250</b> 25             | GE 2 <b>496 250</b> 25              |                                      |



## AVK SERIES

### GROUND TERMINALS

THE STRICT IEC REQUIREMENT IMPOSED ON GROUND CONNECTIONS, SUCH AS LOW CONTACT RESISTANCE, CORROSION-FREE CONNECTION POINTS, SECURED SCREWS, GREEN-YELLOW COLOR CODING AND CLEAR CIRCUIT IDENTIFICATION ARE FULLY OBSERVED BY THE KLEMSAN GROUND TERMINAL BLOCKS

THE STRUCTURAL DESIGN OF THE GROUND TERMINAL BLOCK IS BASED ON MOUNTING RAILS WHEN USED NOT ONLY MECHANICALLY, BUT ALSO ELECTRICALLY. SINCE THESE TERMINAL BLOCKS ARE PROPERLY INSULATED, IT IS POSSIBLE TO POSITION THE GROUND TERMINAL BLOCK DIRECTLY NEXT TO THE CURRENT CARRYING TERMINALS.

WHEN DIN RAILS ARE MOUNTED TO METALLIC CABINETRY AND PROPERLY CONNECTED TO EARTH, THE PROPER GROUNDING PROCESS IS COMPLETE.



#### ELECTRICAL RATINGS

VOLTAGE/CURRENT/CROSS-SECTION

VDE (IEC 60947-7-1)

VDE (IEC 60947-7-2)

UL / CSA

INSULATION STRIPPING LENGTH

#### CONNECTION DATA

SOLID STRAND, SCREW CONNECTION

FINE STRAND, SCREW CONNECTION

AWG CONDUCTOR

#### ORDERING DATA

POLYAMIDE 6.6

YELLOW-GREEN

#### MOUNTING RAILS

TS 35x7.5 SOLID

TS 35x7.5 SLOTTED

TS 35x15 SOLID

TS 35x15 SLOTTED



STEEL SLOT DIM.  
25MM ON 36MM CENTER  
5.2MM SLOT WIDTH



ALUMINUM SLOT DIM.  
13MM ON 26MM CENTER  
5MM SLOT WIDTH

#### END BRACKET

THICKNESS 8MM

KD 3



GREY

#### GROUP MARKING

GE



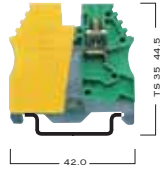
GREY

#### MARKING TAGS

SEE PAGE 34 FOR FURTHER DETAIL.

## AVK 2.5 / 4 T

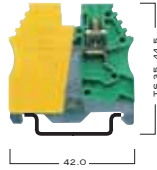
WIDTH 6 MM  
334 120



TORQUE: 0.5 NM

## AVK 6 / 10 T

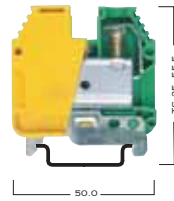
WIDTH 10 MM  
334 140



TORQUE: 1.2 NM

## AVK 16 / 35 T

WIDTH 16 MM  
334 160



TORQUE: 2.5 NM

-V~ / -A / 4MM<sup>2</sup>

-V~ / -A / 4MM<sup>2</sup>

26 – 10

10 MM

0.5 – 6 MM<sup>2</sup>

1.5 – 4 MM<sup>2</sup>

26 – 10

PART No.

STD. PK.

**334 120**

**50**

-V~ / -A / 10MM<sup>2</sup>

-V~ / -A / 10MM<sup>2</sup>

16 – 8

12 MM

1.5 – 16 MM<sup>2</sup>

1.5 – 10 MM<sup>2</sup>

16 – 6

PART No.

STD. PK.

**334 140**

**25**

-V~ / -A / 35MM<sup>2</sup>

-V~ / -A / 35MM<sup>2</sup>

10 – 2

18 MM

6 – 16 MM<sup>2</sup>

10 – 35 MM<sup>2</sup>

8 – 1

PART No.

STD. PK.

**334 160**

**25**

TYPE

PART No.

STD. PK.

SLOTTED

35x7.5

**TS3575SL**

2M

35x7.5

**TS3575SL1**

1M

35x7.5

**TS3575SL1-A**

1M

35x15

**TS3515SL**

2M

SOLID

35x7.5

**TS3575SOL**

2M

35x15

**TS3515SOL**

2M

KD 3

**495 049**

100

TYPE

PART No.

STD. PK.

SLOTTED

35x7.5

**TS3575SL**

2M

35x7.5

**TS3575SL1**

1M

35x7.5

**TS3575SL1-A**

1M

35x15

**TS3515SL**

2M

SOLID

35x7.5

**TS3575SOL**

2M

35x15

**TS3515SOL**

2M

KD 3

**495 049**

100

TYPE

PART No.

STD. PK.

SLOTTED

35x7.5

**TS3575SL**

2M

35x7.5

**TS3575SL1**

1M

35x7.5

**TS3575SL1-A**

1M

35x15

**TS3515SL**

2M

SOLID

35x7.5

**TS3575SOL**

2M

35x15

**TS3515SOL**

2M

KD 3

**495 049**

100

GE

**496 119**

50

GE

**496 119**

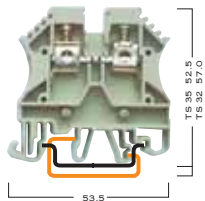
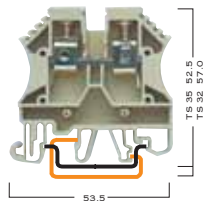
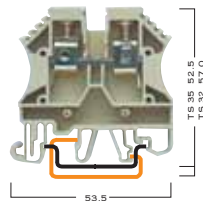
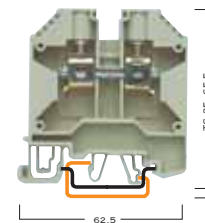
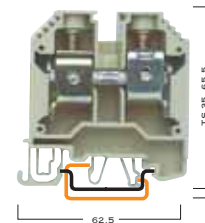
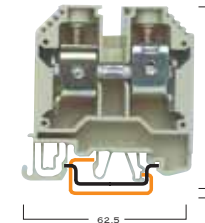
50

GE

**496 119**

50



**PEK 4**WIDTH 6.5 MM  
305 130**PEK 6**WIDTH 8 MM  
305 140**PEK 10**WIDTH 10 MM  
305 150**PEK 16**WIDTH 12 MM  
305 160**PEK 35**WIDTH 16 MM  
305 170**PEK 35 I**WIDTH 16 MM  
305 180

(WITH HEXAGON SOCKET SCREW)

|                               |                               |                                |                                |                                 |                                 |
|-------------------------------|-------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|
| 750 V~/34 A/4 MM <sup>2</sup> | 750 V~/44 A/6 MM <sup>2</sup> | 750 V~/61 A/10 MM <sup>2</sup> | 750 V~/82 A/16 MM <sup>2</sup> | 750 V~/135 A/35 MM <sup>2</sup> | 750 V~/135 A/35 MM <sup>2</sup> |
| 750 V~/32 A/4 MM <sup>2</sup> | 750 V~/41 A/6 MM <sup>2</sup> | 750 V~/57 A/10 MM <sup>2</sup> | 750 V~/76 A/16 MM <sup>2</sup> | 750 V~/125 A/35 MM <sup>2</sup> | 750 V~/125 A/35 MM <sup>2</sup> |
| 600 V~/34 A/AWG 26-10         | 600 V~/44 A/AWG 26-8          | 600 V~/50 A/AWG 16-8           | 600 V~/65 A/AWG 14-6           | 600 V~/115 A/AWG 10-2           | 600 V~/115 A/AWG 10-2           |
| 10 MM                         | 12 MM                         | 12 MM                          | 16 MM                          | 18 MM                           | 18 MM                           |
| 0.5 - 6 MM <sup>2</sup>       | 0.5 - 10 MM <sup>2</sup>      | 1.5 - 16 MM <sup>2</sup>       | 1.5 - 16 MM <sup>2</sup>       | 6 - 16 MM <sup>2</sup>          | 6 - 16 MM <sup>2</sup>          |
| 1.5 - 4 MM <sup>2</sup>       | 1.5 - 6 MM <sup>2</sup>       | 1.5 - 10 MM <sup>2</sup>       | 1.5 - 16 MM <sup>2</sup>       | 6 - 35 MM <sup>2</sup>          | 6 - 35 MM <sup>2</sup>          |
| 26 - 10                       | 26 - 8                        | 16 - 6                         | 14 - 4                         | 10 - 1                          | 10 - 1                          |
| PART No. STD. PK.             | PART No. STD. PK.             | PART No. STD. PK.              | PART No. STD. PK.              | PART No. STD. PK.               | PART No. STD. PK.               |
| <b>305 130 100</b>            | <b>305 140 100</b>            | <b>305 150 100</b>             | <b>305 160 50</b>              | <b>305 170 50</b>               | <b>305 180 30</b>               |
| TYPE PART No. STD. PK.        | TYPE PART No. STD. PK.        | TYPE PART No. STD. PK.         | TYPE PART No. STD. PK.         | TYPE PART No. STD. PK.          | TYPE PART No. STD. PK.          |
| SLOTTED                       | SLOTTED                       | SLOTTED                        | SLOTTED                        | SLOTTED                         | SLOTTED                         |
| 35x7.5 <b>TS3575SL</b> 2M     | 35x7.5 <b>TS3575SL</b> 2M     | 35x7.5 <b>TS3575SL</b> 2M      | 35x7.5 <b>TS3575SL</b> 2M      | 35x7.5 <b>TS3575SL</b> 2M       | 35x7.5 <b>TS3575SL</b> 2M       |
| 35x7.5 <b>TS3575SL1</b> 1M    | 35x7.5 <b>TS3575SL1</b> 1M    | 35x7.5 <b>TS3575SL1</b> 1M     | 35x7.5 <b>TS3575SL1</b> 1M     | 35x7.5 <b>TS3575SL1</b> 1M      | 35x7.5 <b>TS3575SL1</b> 1M      |
| 35x7.5 <b>TS3575SL1-A</b> 1M  | 35x7.5 <b>TS3575SL1-A</b> 1M  | 35x7.5 <b>TS3575SL1-A</b> 1M   | 35x7.5 <b>TS3575SL1-A</b> 1M   | 35x7.5 <b>TS3575SL1-A</b> 1M    | 35x7.5 <b>TS3575SL1-A</b> 1M    |
| 35x15 <b>TS3515SL</b> 2M      | 35x15 <b>TS3515SL</b> 2M      | 35x15 <b>TS3515SL</b> 2M       | 35x15 <b>TS3515SL</b> 2M       | 35x15 <b>TS3515SL</b> 2M        | 35x15 <b>TS3515SL</b> 2M        |
| SOLID                         | SOLID                         | SOLID                          | SOLID                          | SOLID                           | SOLID                           |
| 35x7.5 <b>TS3575SOL</b> 2M    | 35x7.5 <b>TS3575SOL</b> 2M    | 35x7.5 <b>TS3575SOL</b> 2M     | 35x7.5 <b>TS3575SOL</b> 2M     | 35x7.5 <b>TS3575SOL</b> 2M      | 35x7.5 <b>TS3575SOL</b> 2M      |
| 35x15 <b>TS3515SOL</b> 2M     | 35x15 <b>TS3515SOL</b> 2M     | 35x15 <b>TS3515SOL</b> 2M      | 35x15 <b>TS3515SOL</b> 2M      | 35x15 <b>TS3515SOL</b> 2M       | 35x15 <b>TS3515SOL</b> 2M       |
| KD 3 <b>495 040</b> 100       | KD 3 <b>495 040</b> 100       | KD 3 <b>495 040</b> 100        | KD 3 <b>495 040</b> 100        | KD 3 <b>495 040</b> 100         | KD 3 <b>495 040</b> 100         |
| NPP2.5-10 <b>445 150</b> 100  | NPP2.5-10 <b>445 150</b> 100  | NPP2.5-10 <b>445 150</b> 100   | NPP16-35 <b>445 170</b> 25     | NPP16-35 <b>445 170</b> 25      | NPP16-35 <b>445 170</b> 25      |
| APP2.5-10 <b>463 150</b> 25   | APP2.5-10 <b>463 150</b> 25   | APP2.5-10 <b>463 150</b> 25    | APP16-35 <b>463 170</b> 25     | APP16-35 <b>463 170</b> 25      | APP16-35 <b>463 170</b> 25      |
| AD 2 <b>467 950</b> 100       | AD 2 <b>467 950</b> 100       | AD 2 <b>467 950</b> 100        |                                |                                 |                                 |
| UK 4/2 <b>475 132</b> 25      | UK 6/2 <b>475 142</b> 25      | UK 10/2 <b>475 152</b> 25      | UK 16/2 <b>475 162</b> 25      | UK 35/2 <b>475 172</b> 25       | UK 35/2 <b>475 172</b> 25       |
| UK 4/3 <b>475 133</b> 20      | UK 6/3 <b>475 143</b> 20      | UK 10/3 <b>475 153</b> 20      | UK 16/3 <b>475 163</b> 20      | UK 35/3 <b>475 173</b> 20       | UK 35/3 <b>475 173</b> 20       |
| UK 4/4 <b>475 134</b> 15      | UK 6/4 <b>475 144</b> 15      | UK 10/4 <b>475 154</b> 15      | UK 16/4 <b>475 164</b> 15      | UK 35/4 <b>475 174</b> 15       | UK 35/4 <b>475 174</b> 15       |
| UK 4/10 <b>475 139</b> 5      | UK 6/10 <b>475 149</b> 5      | UK 10/10 <b>475 159</b> 5      | UK 16/10 <b>475 169</b> 5      | UK 35/10 <b>475 179</b> 5       | UK 35/10 <b>475 179</b> 5       |
| CK 4 <b>485 204</b> 25        | CK 6 <b>485 206</b> 25        | CK 10 <b>485 210</b> 25        | CK 16 <b>485 216</b> 10        | CK 16 <b>485 235</b> 10         | CK 16 <b>485 235</b> 10         |
| TF(Ø2.3) <b>493 023</b> 5     | TF(Ø2.3) <b>493 023</b> 5     | TF(Ø2.3) <b>493 023</b> 5      | TF(Ø4) <b>493 040</b> 5        | TF(Ø4) <b>493 040</b> 5         | TF(Ø4) <b>493 040</b> 5         |
| TF(Ø4) <b>493 040</b> 5       | TF(Ø4) <b>493 040</b> 5       | TF(Ø4) <b>493 040</b> 5        |                                |                                 |                                 |
| TSK4(Ø2.3) <b>490 040</b> 5   | TSK4(Ø2.3) <b>490 040</b> 5   | TSK4(Ø2.3) <b>490 040</b> 5    | TSK8(Ø4) <b>490 080</b> 5      | TSK9(Ø4) <b>490 090</b> 5       | TSK9(Ø4) <b>490 090</b> 5       |
| TSK7(Ø4) <b>490 070</b> 5     | TSK7(Ø4) <b>490 070</b> 5     | TSK7(Ø4) <b>490 070</b> 5      |                                |                                 |                                 |
| ITK 28((Ø4)) <b>492 010</b> 5 | ITK 28((Ø4)) <b>492 010</b> 5 | ITK 28((Ø4)) <b>492 010</b> 5  | ITK 32(Ø4) <b>492 020</b> 5    |                                 |                                 |
| IP 2 S <b>498 130</b> 25      | IP 2 S <b>498 130</b> 25      | IP 2 S <b>498 130</b> 25       | IP 3 S <b>498 143</b> 25       | IP 3 S <b>498 143</b> 25        | IP 3 S <b>498 143</b> 25        |
| IP 2 <b>498 140</b> 25        | IP 2 <b>498 140</b> 25        | IP 2 <b>498 140</b> 25         | IP 3 <b>498 145</b> 25         | IP 3 <b>498 145</b> 25          | IP 3 <b>498 145</b> 25          |
| GE <b>496 110</b> 50          | GE <b>496 110</b> 50          | GE <b>496 110</b> 50           | GE <b>496 110</b> 50           | GE <b>496 110</b> 50            | GE <b>496 110</b> 50            |
| GE 2 <b>496 250</b> 25        | GE 2 <b>496 250</b> 25        | GE 2 <b>496 250</b> 25         | GE 3 <b>496 255</b> 10         | GE 3 <b>496 255</b> 10          | GE 3 <b>496 255</b> 10          |
| MGE 1 <b>496 260</b> 25       | MGE 1 <b>496 260</b> 25       | MGE 1 <b>496 260</b> 25        | MGE 1 <b>496 260</b> 25        | MGE 1 <b>496 260</b> 25         | MGE 1 <b>496 260</b> 25         |



## WGT SERIES

### GROUND TERMINALS

WGT SERIES GROUND TERMINALS CAN BE USED ON BOTH TS35 AND TS32 DIN RAILS. THE YELLOW/GREEN COLOR COMBINATION MEETS INTERNATIONAL STANDARDS FOR GROUND LABELING. THE INTERNAL METAL PARTS ELECTRICALLY CONNECT THE FIELD WIRING TO THE DIN RAIL. DIN RAILS MOUNTED TO METALLIC CABINETRY AND CONNECTED TO EARTH, COMPLETE THE PROPER GROUNDING PROCESS.



#### ELECTRICAL RATINGS

VOLTAGE/CURRENT/CROSS-SECTION  
VDE (IEC 60947-7-2)  
UL

INSULATION STRIPPING LENGTH

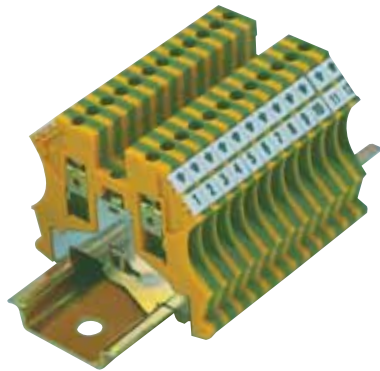
#### CONNECTION DATA

SOLID STRAND, SCREW CONNECTION  
FINE STRAND, SCREW CONNECTION  
AWG CONDUCTOR

#### ORDERING DATA

POLYAMIDE 6.6

YELLOW-GREEN



#### MOUNTING RAILS

TS 35x7.5 SOLID  
TS 35x7.5 SLOTTED

TS 35x15 SOLID  
TS 35x15 SLOTTED



STEEL SLOT DIM.  
25MM ON 36MM CENTER  
5.2MM SLOT WIDTH



ALUMINUM SLOT DIM.  
13MM ON 26MM CENTER  
5MM SLOT WIDTH

THICKNESS 8MM

KD 3



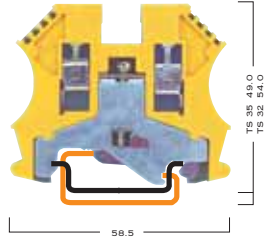
BEIGE

#### MARKING TAGS

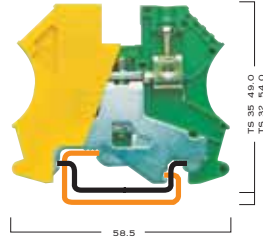
SEE PAGE 34 FOR FURTHER DETAIL.

**WGT 2.5**

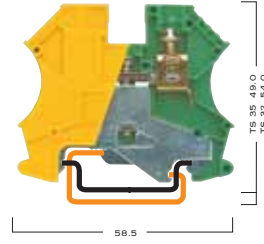
WIDTH 5 MM  
331 120

**WGT 4**

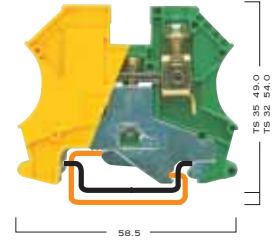
WIDTH 6 MM  
331 130

**WGT 6**

WIDTH 8 MM  
331 140

**WGT 10**

WIDTH 10 MM  
331 150



- V~ / - A / 2.5 MM<sup>2</sup>  
- V~ / - A / 2.5 MM<sup>2</sup>  
- V~ / - A / AWG 26-12

12 MM

0.5 - 4 MM<sup>2</sup>  
1.5 - 2.5 MM<sup>2</sup>  
26 - 12

PART No. STD. PK.  
**331 120 50**

- V~ / - A / 4 MM<sup>2</sup>  
- V~ / - A / 4 MM<sup>2</sup>  
- V~ / - A / AWG 26-12

12 MM

0.5 - 6 MM<sup>2</sup>  
1.5 - 4 MM<sup>2</sup>  
26 - 10

PART No. STD. PK.  
**331 130 50**

- V~ / - A / 6 MM<sup>2</sup>  
- V~ / - A / 6 MM<sup>2</sup>  
- V~ / - A / AWG 26-8

12 MM

0.5 - 10 MM<sup>2</sup>  
1.5 - 6 MM<sup>2</sup>  
20 - 8

PART No. STD. PK.  
**331 140 40**

- V~ / - A / 10 MM<sup>2</sup>  
- V~ / - A / 10 MM<sup>2</sup>  
- V~ / - A / AWG 16-8

12 MM

0.5 - 16 MM<sup>2</sup>  
1.5 - 10 MM<sup>2</sup>  
16 - 6

PART No. STD. PK.  
**331 150 30**

| TYPE    | PART No.           | STD. PK. |
|---------|--------------------|----------|
| SLOTTED |                    |          |
| 35x7.5  | <b>TS3575SL</b>    | 2M       |
| 35x7.5  | <b>TS3575SL1</b>   | 1M       |
| 35x7.5  | <b>TS3575SL1-A</b> | 1M       |
| 35x15   | <b>TS3515SL</b>    | 2M       |
| SOLID   |                    |          |
| 35x7.5  | <b>TS3575SOL</b>   | 2M       |
| 35x15   | <b>TS3515SOL</b>   | 2M       |
| KD 3    | <b>495 040</b>     | 100      |

| TYPE    | PART No.           | STD. PK. |
|---------|--------------------|----------|
| SLOTTED |                    |          |
| 35x7.5  | <b>TS3575SL</b>    | 2M       |
| 35x7.5  | <b>TS3575SL1</b>   | 1M       |
| 35x7.5  | <b>TS3575SL1-A</b> | 1M       |
| 35x15   | <b>TS3515SL</b>    | 2M       |
| SOLID   |                    |          |
| 35x7.5  | <b>TS3575SOL</b>   | 2M       |
| 35x15   | <b>TS3515SOL</b>   | 2M       |
| KD 3    | <b>495 040</b>     | 100      |

| TYPE    | PART No.           | STD. PK. |
|---------|--------------------|----------|
| SLOTTED |                    |          |
| 35x7.5  | <b>TS3575SL</b>    | 2M       |
| 35x7.5  | <b>TS3575SL1</b>   | 1M       |
| 35x7.5  | <b>TS3575SL1-A</b> | 1M       |
| 35x15   | <b>TS3515SL</b>    | 2M       |
| SOLID   |                    |          |
| 35x7.5  | <b>TS3575SOL</b>   | 2M       |
| 35x15   | <b>TS3515SOL</b>   | 2M       |
| KD 3    | <b>495 040</b>     | 100      |

| TYPE    | PART No.           | STD. PK. |
|---------|--------------------|----------|
| SLOTTED |                    |          |
| 35x7.5  | <b>TS3575SL</b>    | 2M       |
| 35x7.5  | <b>TS3575SL1</b>   | 1M       |
| 35x7.5  | <b>TS3575SL1-A</b> | 1M       |
| 35x15   | <b>TS3515SL</b>    | 2M       |
| SOLID   |                    |          |
| 35x7.5  | <b>TS3575SOL</b>   | 2M       |
| 35x15   | <b>TS3515SOL</b>   | 2M       |
| KD 3    | <b>495 040</b>     | 100      |



## YBK SERIES

### TENSION CLAMP TERMINALS

TENSION CLAMP TERMINALS PROVIDE A FASTER METHOD OF TERMINATING WIRES AS COMPARED TO SCREW CLAMP SYSTEMS. APPROVED BY UL, THEY ARE JUST AS RELIABLE IN FIELD APPLICATIONS.

THE TENSION CLAMP IS OPENED WITH A SMALL SCREWDRIVER INSERTED TO THE SIDE OF THE CLAMP NEXT TO THE WIRE ENTRY WAY. WHEN THE FIELD WIRING IS IN PLACE, THE SCREWDRIVER CAN BE REMOVED AND A RELIABLE, SECURE CONNECTION IS MAINTAINED.



#### ELECTRICAL RATINGS

VOLTAGE/CURRENT/CROSS-SECTION  
UL

INSULATION STRIPPING LENGTH

#### CONNECTION DATA

SOLID STRAND, CLAMP CONNECTION  
FINE STRAND, CLAMP CONNECTION  
AWG CONDUCTOR

#### ORDERING DATA

POLYAMIDE 6.6  
BEIGE  
GREY

| COLORS | TERMINALS      | END PLATE   |
|--------|----------------|-------------|
|        | PART NUMBER    | PART NUMBER |
|        | <b>YBK 2.5</b> | <b>NPP</b>  |
| BEIGE  | 306 220        | 446 320     |
| BLUE   | 306 221        | 446 321     |
| GREEN  | 306 222        | 446 322     |
| YELLOW | 306 223        | 446 323     |
| RED    | 306 224        | 446 324     |
| GREY   | 306 229        | 446 329     |
|        |                |             |
|        | <b>YBK 4</b>   | <b>NPP</b>  |
| BEIGE  | 306 230        | 446 330     |
| BLUE   | 306 231        | 446 331     |
| GREEN  | 306 232        | 446 332     |
| YELLOW | 306 233        | 446 333     |
| RED    | 306 234        | 446 334     |
| GREY   | 306 239        | 446 339     |
|        |                |             |
|        | <b>YBK 6</b>   | <b>NPP</b>  |
| BEIGE  | 306 240        | 446 340     |
| BLUE   | 306 241        | 446 341     |
| GREEN  | 306 242        | 446 342     |
| YELLOW | 306 243        | 446 343     |
| RED    | 306 244        | 446 344     |
| GREY   | 306 249        | 446 349     |
|        |                |             |
|        | <b>YBK 10</b>  | <b>NPP</b>  |
| BEIGE  | 306 250        | 446 350     |
| BLUE   | 306 251        | 446 351     |
| GREEN  | 306 252        | 446 352     |
| YELLOW | 306 253        | 446 353     |
| RED    | 306 254        | 446 354     |
| GREY   | 306 259        | 446 359     |

#### MOUNTING RAILS

TS 35X7.5 SOLID TS 35X15 SOLID  
TS 35X7.5 SLOTTED TS 35X15 SLOTTED



STEEL SLOT DIM.  
25MM ON 36MM CENTER  
5.2MM SLOT WIDTH



ALUMINUM SLOT DIM.  
13MM ON 26MM CENTER  
5MM SLOT WIDTH

#### END BRACKET

THICKNESS 8MM  
BEIGE  
GREY



#### END PLATE

THICKNESS 1.2MM  
POLYAMIDE 6.6  
BEIGE  
GREY



#### CROSS CONNECTION



#### TEST PLUG



#### WARNING LABEL



WITH SYMBOL  
WITHOUT SYMBOL

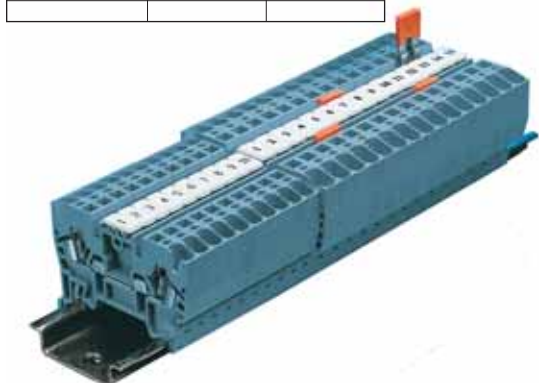
#### GROUP MARKING



BEIGE  
GREY

#### MARKING TAGS

SEE PAGE 34 FOR FURTHER DETAIL.







## YBK SERIES

### TENSION CLAMP GROUND TERMINALS

THE YBK TENSION CLAMP GROUND TERMINAL BLOCKS ELECTRICALLY CONNECT FIELD WIRING TO THE DIN RAIL VIA THE METALLIC INTERNAL PARTS. WHEN THE DIN RAIL IS CONNECTED TO METALLIC CABINETRY THAT IS SECURED TO EARTH, THE PROPER GROUNDING PROCESS IS COMPLETED.



#### ELECTRICAL RATINGS

VOLTAGE/CURRENT/CROSS-SECTION  
UL

INSULATION STRIPPING LENGTH

#### CONNECTION DATA

SOLID STRAND, CLAMP CONNECTION  
FINE STRAND, CLAMP CONNECTION  
AWG CONDUCTOR

#### ORDERING DATA

POLYAMIDE 6.6

YELLOW-GREEN

#### MOUNTING RAILS

TS 35X7.5 SOLID  
TS 35X7.5 SLOTTED

TS 35X15 SOLID  
TS 35X15 SLOTTED



STEEL SLOT DIM.  
25MM ON 36MM CENTER  
5.2MM SLOT WIDTH



ALUMINUM SLOT DIM.  
13MM ON 26MM CENTER  
5MM SLOT WIDTH

#### END BRACKET

THICKNESS 8MM

BEIGE  
GREY

KD 3



#### END PLATE

THICKNESS 1.2MM  
POLYAMIDE 6.6

GREEN

NPP



#### GROUP MARKING

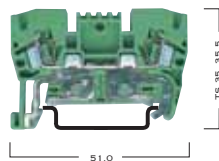
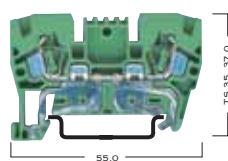
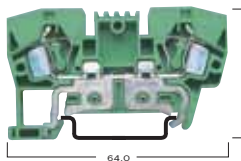
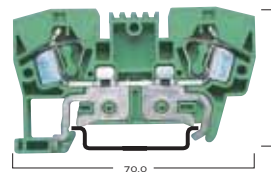
GE

BEIGE  
GREY



#### MARKING TAGS

SEE PAGE 34 FOR FURTHER DETAIL.

**YBK 2.5 T**WIDTH 5 MM  
336 220**YBK 4 T**WIDTH 6 MM  
336 230**YBK 6 T**WIDTH 8 MM  
336 240**YBK 10 T**WIDTH 10 MM  
336 250

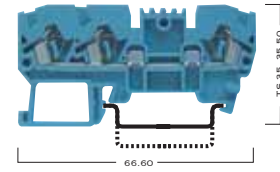
|                                  |                    |     |                                |                    |     |                                |                    |     |                                 |                    |     |
|----------------------------------|--------------------|-----|--------------------------------|--------------------|-----|--------------------------------|--------------------|-----|---------------------------------|--------------------|-----|
| - V~ / - A / 2.5 MM <sup>2</sup> |                    |     | - V~ / - A / 4 MM <sup>2</sup> |                    |     | - V~ / - A / 6 MM <sup>2</sup> |                    |     | - V~ / - A / 10 MM <sup>2</sup> |                    |     |
| 600 V~ / 20 A / AWG 22-12        |                    |     | 600 V~ / 26 A / AWG 22-10      |                    |     | 600 V~ / 35 A / AWG 22-8       |                    |     | 600 V~ / 55 A / AWG 20-6        |                    |     |
| 10 MM                            |                    |     | 12 MM                          |                    |     | 13 MM                          |                    |     | 13 MM                           |                    |     |
| 0.5 - 2.5 MM <sup>2</sup>        |                    |     | 0.5 - 4 MM <sup>2</sup>        |                    |     | 0.5 - 6 MM <sup>2</sup>        |                    |     | 0.5 - 10 MM <sup>2</sup>        |                    |     |
| 0.5 - 2.5 MM <sup>2</sup>        |                    |     | 0.5 - 4 MM <sup>2</sup>        |                    |     | 0.5 - 6 MM <sup>2</sup>        |                    |     | 0.5 - 10 MM <sup>2</sup>        |                    |     |
| 22 - 12                          |                    |     | 22 - 10                        |                    |     | 22 - 8                         |                    |     | 20 - 6                          |                    |     |
| PART No.                         | STD. PK.           |     | PART No.                       | STD. PK.           |     | PART No.                       | STD. PK.           |     | PART No.                        | STD. PK.           |     |
| <b>336 220</b>                   | <b>50</b>          |     | <b>336 230</b>                 | <b>50</b>          |     | <b>336 240</b>                 | <b>40</b>          |     | <b>336 250</b>                  | <b>30</b>          |     |
| TYPE                             |                    |     | TYPE                           |                    |     | TYPE                           |                    |     | TYPE                            |                    |     |
| SLOTTED                          |                    |     | SLOTTED                        |                    |     | SLOTTED                        |                    |     | SLOTTED                         |                    |     |
| 35x7.5                           | <b>TS3575SL</b>    | 2M  | 35x7.5                         | <b>TS3575SL</b>    | 2M  | 35x7.5                         | <b>TS3575SL</b>    | 2M  | 35x7.5                          | <b>TS3575SL</b>    | 2M  |
| 35x7.5                           | <b>TS3575SL1</b>   | 1M  | 35x7.5                         | <b>TS3575SL1</b>   | 1M  | 35x7.5                         | <b>TS3575SL1</b>   | 1M  | 35x7.5                          | <b>TS3575SL1</b>   | 1M  |
| 35x7.5                           | <b>TS3575SL1-A</b> | 1M  | 35x7.5                         | <b>TS3575SL1-A</b> | 1M  | 35x7.5                         | <b>TS3575SL1-A</b> | 1M  | 35x7.5                          | <b>TS3575SL1-A</b> | 1M  |
| 35x15                            | <b>TS3515SL</b>    | 2M  | 35x15                          | <b>TS3515SL</b>    | 2M  | 35x15                          | <b>TS3515SL</b>    | 2M  | 35x15                           | <b>TS3515SL</b>    | 2M  |
| SOLID                            |                    |     | SOLID                          |                    |     | SOLID                          |                    |     | SOLID                           |                    |     |
| 35x7.5                           | <b>TS3575SOL</b>   | 2M  | 35x7.5                         | <b>TS3575SOL</b>   | 2M  | 35x7.5                         | <b>TS3575SOL</b>   | 2M  | 35x7.5                          | <b>TS3575SOL</b>   | 2M  |
| 35x15                            | <b>TS3515SOL</b>   | 2M  | 35x15                          | <b>TS3515SOL</b>   | 2M  | 35x15                          | <b>TS3515SOL</b>   | 2M  | 35x15                           | <b>TS3515SOL</b>   | 2M  |
| KD 3                             |                    |     | KD 3                           |                    |     | KD 3                           |                    |     | KD 3                            |                    |     |
|                                  | <b>495 040</b>     | 100 |                                | <b>495 040</b>     | 100 |                                | <b>495 040</b>     | 100 |                                 | <b>495 040</b>     | 100 |
| KD 3                             | <b>495 049</b>     | 100 | KD 3                           | <b>495 049</b>     | 100 | KD 3                           | <b>495 049</b>     | 100 | KD 3                            | <b>495 049</b>     | 100 |
| NPP                              |                    |     | NPP                            |                    |     | NPP                            |                    |     | NPP                             |                    |     |
|                                  | <b>446 322</b>     | 100 |                                | <b>446 332</b>     | 100 |                                | <b>446 342</b>     | 100 |                                 | <b>446 352</b>     | 100 |
| GE                               |                    |     | GE                             |                    |     | GE                             |                    |     | GE                              |                    |     |
|                                  | <b>496 110</b>     | 50  |                                | <b>496 110</b>     | 50  |                                | <b>496 110</b>     | 50  |                                 | <b>496 110</b>     | 50  |
| GE                               | <b>496 119</b>     | 50  | GE                             | <b>496 119</b>     | 50  | GE                             | <b>496 119</b>     | 50  | GE                              | <b>496 119</b>     | 50  |



## YBK SERIES

## YBK 2.5 E

WIDTH 5 MM  
326 050 BEIGE  
326 059 GREY



### ELECTRICAL RATINGS

VOLTAGE/CURRENT/CROSS-SECTION

750 V~ / 24 A / 2.5 MM<sup>2</sup>

INSULATION STRIPPING LENGTH

13 MM

### CONNECTION DATA

SOLID STRAND, CLAMP CONNECTION

0.5 - 2.5 MM<sup>2</sup>

FINE STRAND, CLAMP CONNECTION

0.5 - 2.5 MM<sup>2</sup>

AWG CONDUCTOR

22 - 12

### ORDERING DATA

POLYAMIDE 6.6

BEIGE

PART No.

STD. PK.

GREY

**326 050**

**50**

YELLOW-GREEN

**326 059**

**50**

### MOUNTING RAILS

TS 35x7.5 SOLID

TS 35x15 SOLID

TS 35x7.5 SLOTTED

TS 35x15 SLOTTED



STEEL SLOT DIM.  
25MM ON 36MM CENTER  
5.2MM SLOT WIDTH



ALUMINUM SLOT DIM.  
13MM ON 26MM CENTER  
5MM SLOT WIDTH

### END BRACKET

THICKNESS 8MM

BEIGE

GREY

KD 3



KD 3

**495 040**

100

KD 3

**495 049**

100

### END PLATE

THICKNESS 1.2MM

NPP

BEIGE

POLYAMIDE 6.6

GREY

GREEN



NPP

**446 210**

10

NPP

**446 219**

10

### CROSS CONNECTION



UK 2.5/2

**476 222**

25

UK 2.5/3

**476 223**

20

UK 2.5/4

**476 224**

15

UK 2.5/10

**476 229**

5

### TEST PLUG

TF



TF (Ø2)

**493 020**

5

### GROUP MARKING

GE



BEIGE

GREY

GE

**496 110**

50

GE

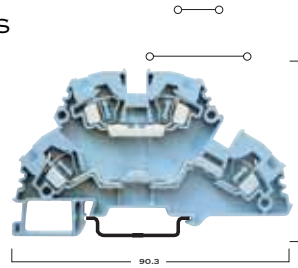
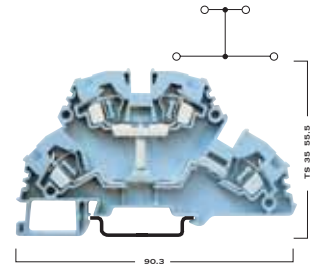
**496 119**

50

### MARKING TAGS

SEE PAGE 34 FOR FURTHER DETAIL.



**YBK SERIES****DOUBLE-DECK  
TENSION CLAMP TERMINALS****YBK 4-2F**WIDTH 6 MM  
318 109**YBK 4-2FK**WIDTH 6 MM  
318 129**ELECTRICAL RATINGS**VOLTAGE/CURRENT/CROSS-SECTION  
UL750 V~ / 30 A / 4 MM<sup>2</sup>  
600 V~ / 26 A / AWG 22-10750 V~ / 30 A / 4 MM<sup>2</sup>  
600 V~ / 26 A / AWG 22-10

INSULATION STRIPPING LENGTH

12 MM

12 MM

**CONNECTION DATA**

SOLID STRAND, SCREW CONNECTION

0.5 - 4 MM<sup>2</sup>0.5 - 4 MM<sup>2</sup>

FINE STRAND, SCREW CONNECTION

0.5 - 4 MM<sup>2</sup>0.5 - 4 MM<sup>2</sup>

AWG CONDUCTOR

22 - 10

22 - 10

**ORDERING DATA**

POLYAMIDE 6.6

BEIGE

PART No.

STD. PK.

PART No.

STD. PK.

318 100

50

318 120

20

GREY

318 109

50

318 129

20

**MOUNTING RAILS**

TS 35X7.5 SOLID

TS 35X15 SOLID

TS 35X7.5 SLOTTED

TS 35X15 SLOTTED



STEEL SLOT DIM.

25MM ON 36MM CENTER

5.2MM SLOT WIDTH



ALUMINUM SLOT DIM.

13MM ON 26MM CENTER

5MM SLOT WIDTH

**END BRACKET**

THICKNESS 8MM

KD 3



BEIGE

GREY

KD 3

495 040

100

KD 3

495 049

100

KD 3

495 040

100

KD 3

495 049

100

**END PLATE - PARTITION**

THICKNESS 1.5MM

POLYAMIDE 6.6

NPP



BEIGE

GREY

NPP

446 260

25

NPP

446 269

25

NPP

446 260

25

NPP

446 269

25

**CROSS CONNECTION**

UK 4/2

476 232

25

UK 4/3

476 233

20

UK 4/4

476 234

15

UK 4/10

476 239

5

UK 4/2

476 232

25

UK 4/3

476 233

20

UK 4/4

476 234

15

UK 4/10

476 239

5

**TEST PLUG-SOC. / INS. TEST SOC.**

TF



TF (Ø2)

493 020

5

TF (Ø2)

493 020

5

**GROUP MARKING**

GE



BEIGE

GREY

GE

496 110

50

GE

496 119

50

GE

496 110

50

GE

496 119

50

**MARKING TAGS**

SEE PAGE 34 FOR FURTHER DETAIL.

## PIK 4N SERIES

### DOUBLE-DECK TERMINALS AND ACCESSORIES

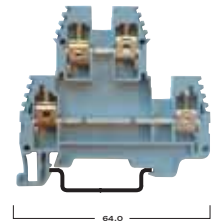


## PIK 4 N

WIDTH 6 MM

319 100 BEIGE

319 109 GREY



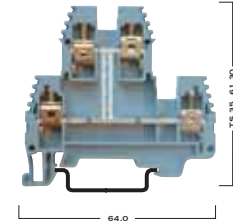
TORQUE: 0.5 NM

## PIK 4 NK

WIDTH 6 MM

319 120 BEIGE

319 129 GREY



TORQUE: 0.5 NM

#### ELECTRICAL RATINGS

VOLTAGE/CURRENT/CROSS-SECTION

VDE (IEC 60947-7-1)

UL

INSULATION STRIPPING LENGTH

#### CONNECTION DATA

SOLID STRAND, SCREW CONNECTION

FINE STRAND, SCREW CONNECTION

AWG CONDUCTOR

#### ORDERING DATA

POLYAMIDE 6.6

BEIGE

GREY

#### MOUNTING RAILS

TS 35x7.5

TS 35x15 SLOTTED

TS 35x7.5

TS 35x15 SLOTTED



STEEL SLOT DIM.

25MM ON 36MM CENTER

5.2MM SLOT WIDTH



ALUMINUM SLOT DIM.

13MM ON 26MM CENTER

5MM SLOT WIDTH

#### END BRACKET

THICKNESS 8MM

KD 3



BEIGE

GREY

#### END PLATE - PARTITION

THICKNESS 1.5MM

POLYAMIDE 6.6

NPP



BEIGE

GREY

#### CROSS CONNECTION



#### TEST PLUG-SOC. / INS. TEST SOC.

TF

ITK

TSK



#### GROUP MARKING

GE



BEIGE

GREY

#### MARKING TAGS

SEE PAGE 34 FOR FURTHER DETAIL.

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| 750 V~ / 34 A / 4 MM <sup>2</sup> | 750 V~ / 34 A / 4 MM <sup>2</sup> |
| 500 V~ / 32 A / 4 MM <sup>2</sup> | 500 V~ / 32 A / 4 MM <sup>2</sup> |
| 300 V~ / 32 A / AWG 26-10         | 300 V~ / 32 A / AWG 26-10         |
| 9 MM                              | 9 MM                              |
| 0.5 - 6 MM <sup>2</sup>           | 0.5 - 6 MM <sup>2</sup>           |
| 1.5 - 4 MM <sup>2</sup>           | 1.5 - 4 MM <sup>2</sup>           |
| 26 - 10                           | 26 - 10                           |
| PART No. STD. PK.                 | PART No. STD. PK.                 |
| 319 100 100                       | 319 120 20                        |
| 319 109 100                       | 319 129 20                        |
| TYPE PART No. STD. PK.            | TYPE PART No. STD. PK.            |
| SLOTTED                           | SLOTTED                           |
| 35x7.5 TS3575SL 2M                | 35x7.5 TS3575SL 2M                |
| 35x7.5 TS3575SL1 1M               | 35x7.5 TS3575SL1 1M               |
| 35x7.5 TS3575SL1-A 1M             | 35x7.5 TS3575SL1-A 1M             |
| 35x15 TS3515SL 2M                 | 35x15 TS3515SL 2M                 |
| SOLID                             | SOLID                             |
| 35x7.5 TS3575SOL 2M               | 35x7.5 TS3575SOL 2M               |
| 35x15 TS3515SOL 2M                | 35x15 TS3515SOL 2M                |
| KD 3 495 040 100                  | KD 3 495 040 100                  |
| KD 3 495 049 100                  | KD 3 495 049 100                  |
| NPP 449 010 25                    | NPP 449 010 25                    |
| NPP 449 019 25                    | NPP 449 019 25                    |
| UK 4/2 474 132 25                 | UK 4/2 474 132 25                 |
| UK 4/3 474 133 20                 | UK 4/3 474 133 20                 |
| UK 4/4 474 134 15                 | UK 4/4 474 134 15                 |
| UK 4/10 474 139 5                 | UK 4/10 474 139 5                 |
| TF (Ø2.3) 493 023 5               | TF (Ø2.3) 493 023 5               |
| TF (Ø4) 493 040 5                 | TF (Ø4) 493 040 5                 |
| TSK 4 (Ø2.3) 490 040 5            | TSK 4 (Ø2.3) 490 040 5            |
| TSK 7 (Ø4) 490 070 5              | TSK 7 (Ø4) 490 070 5              |
| ITK 28 (Ø4) 492 010 5             | ITK 28 (Ø4) 492 010 5             |
| GE 496 110 50                     | GE 496 110 50                     |
| GE 496 119 50                     | GE 496 119 50                     |



## PUK SERIES

### SCREW TYPE TERMINAL BLOCKS FOR INITIATORS, ACTUATORS AND MOTORS

THE PUK SERIES IS A FEED-THRU AND FEED-THRU/GROUNDING TERMINAL BLOCK SERIES USED IN APPLICATIONS UTILIZING SENSORS OR OTHER MULTIWIRE SYSTEMS. THE TERMINAL BLOCKS ARE ONLY 6MM WIDE, WHICH SAVES 2/3 TO \_ THE NORMAL SPACE UTILIZED IN STANDARD TERMINALS. THE PUK 3 AND PUK 2T BOTH HAVE AREAS FOR JUMPERING ONE OR TWO LEVELS. THIS IS PARTICULARLY TIME SAVING WHEN DAISY-CHAINING POWER OR GROUND (+ OR -).

THE PUK 2T AND PUK 3T ALLOW FEED THRU TERMINAL BLOCKS AS WELL AS DIRECT GROUNDING TO THE RAIL ASSEMBLY.



#### ELECTRICAL RATINGS

VOLTAGE/CURRENT/CROSS-SECTION

VDE (IEC 60947-7-1)

UL

INSULATION STRIPPING LENGTH

#### CONNECTION DATA

SOLID STRAND, SCREW CONNECTION

FINE STRAND, SCREW CONNECTION

AWG CONDUCTOR

#### ORDERING DATA

POLYAMIDE 6.6

GREY  
BEIGE

#### MOUNTING RAILS

TS 35x7.5 SOLID

TS 35x7.5 SLOTTED

TS 35x15 SOLID

TS 35x15 SLOTTED



STEEL SLOT DIM.  
25MM ON 36MM CENTER  
5.2MM SLOT WIDTH



ALUMINUM SLOT DIM.  
13MM ON 26MM CENTER  
5MM SLOT WIDTH

#### END BRACKET

THICKNESS 8MM

TS 32 & TS 35 / FOR BEIGE / GREY

TS 35 / FOR BEIGE / GREY

KD 3



#### END PLATE

THICKNESS 1.5MM

POLYAMIDE 6.6

NPP PUK 3

NPP PUK 2 T

NPP PUK 3T

BEIGE  
GREY



#### SMALL PARTITION



BEIGE  
GREY

#### CROSS CONNECTION



#### TEST PLUG-SOC. / INS. TEST SOC.

TF



TSK



#### GROUP MARKING

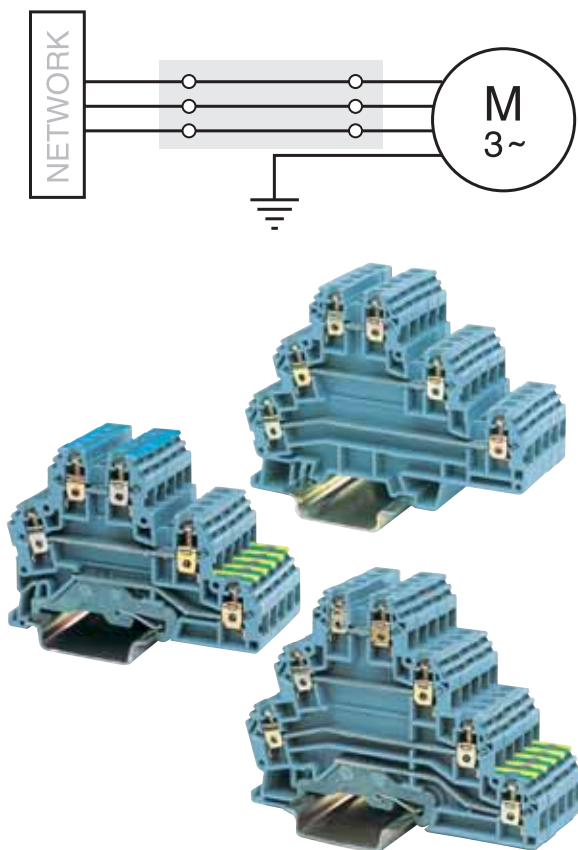
GE



BEIGE  
GREY

#### MARKING TAGS

SEE PAGE 34 FOR FURTHER DETAIL.











## YBK SERIES

### TENSION CLAMP FUSE AND DISCONNECT TERMINALS

THE YBK SERIES FOR FUSE BLOCKS UTILIZE  
SPRING CLAMP TECHNOLOGY AND FUSING FOR  
5X20MM, 5X25MM AND 1 1/4" X 1/4" TYPES.



#### ELECTRICAL RATINGS

VOLTAGE/CURRENT/CROSS-SECTION  
UL / CSA

FUSE SIZE  
INSULATION STRIPPING LENGTH

#### CONNECTION DATA

SOLID STRAND, SCREW CONNECTION  
FINE STRAND, SCREW CONNECTION  
AWG CONDUCTOR

#### ORDERING DATA

POLYAMIDE 6.6  
GREY  
BEIGE  
GREY  
BEIGE

#### MOUNTING RAILS

TS 35X7.5 SOLID  
TS 35X7.5 SLOTTED  
TS 35X15 SOLID  
TS 35X15 SLOTTED



STEEL SLOT DIM.  
25MM ON 36MM CENTER  
5.2MM SLOT WIDTH



ALUMINUM SLOT DIM.  
13MM ON 26MM CENTER  
5MM SLOT WIDTH

#### END BRACKET

THICKNESS 8MM  
KD 3  
BEIGE  
GREY



#### END PLATE

THICKNESS 1.5MM  
POLYAMIDE 6.6  
NPP YBK S - YBK I  
BEIGE  
GREY



#### CROSS CONNECTION



#### GROUP MARKING

GE  
BEIGE  
GREY



#### MARKING TAGS

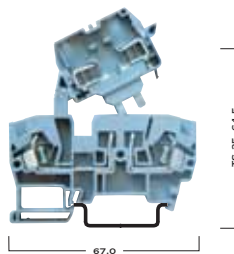
SEE PAGE 34 FOR FURTHER DETAIL.

**YBK S**

WIDTH 8 MM

355 110 BEIGE

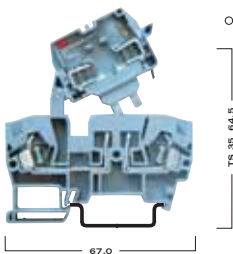
355 119 GREY

**YBK SLD**

WIDTH 8 MM

---0 BEIGE

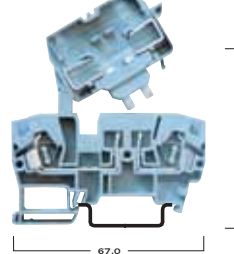
---9 GREY

**YBK I**

WIDTH 8 MM

355 120 BEIGE

355 129 GREY

500 V~ / - A / 4 MM<sup>2</sup>

600 V~ / - A / AWG 22-10

5x20, 5x25 MM

12 MM

0.5 -4 MM<sup>2</sup>0.5 -4 MM<sup>2</sup>

22 - 10

PART NO.

STD. PK.

**355 110****20****355 119****20**- V~ / - A / 4 MM<sup>2</sup>

- V~ / - A / AWG 22-10

5x20, 5x25 MM

12 MM

0.5 -4 MM<sup>2</sup>0.5 -4 MM<sup>2</sup>

22 - 10

PART NO.

STD. PK.

**355 720** (24V DC)**20****355 729** (24V DC)**20****355 750** (110V DC)**20****355 759** (110V DC)**20**500 V~ / - A / 4 MM<sup>2</sup>

600 V~ / - A / AWG 22-10

11/4x1/4"

12 MM

0.5 -4 MM<sup>2</sup>0.5 -4 MM<sup>2</sup>

22 - 10

PART NO.

STD. PK.

**355 120****20****355 129****20**

TYPE

PART NO.

STD. PK.

SLOTTED

35x7.5

**TS3575SL**

2M

35x7.5

**TS3575SL1**

1M

35x7.5

**TS3575SL1-A**

1M

35x15

**TS3515SL**

2M

SOLID

35x7.5

**TS3575SOL**

2M

35x15

**TS3515SOL**

2M

KD 3

**495 040**

100

KD 3

**495 049**

100

TYPE

PART NO.

STD. PK.

SLOTTED

35x7.5

**TS3575SL**

2M

35x7.5

**TS3575SL1**

1M

35x7.5

**TS3575SL1-A**

1M

35x15

**TS3515SL**

2M

SOLID

35x7.5

**TS3575SOL**

2M

35x15

**TS3515SOL**

2M

KD 3

**495 040**

100

KD 3

**495 049**

100

TYPE

PART NO.

STD. PK.

SLOTTED

35x7.5

**TS3575SL**

2M

35x7.5

**TS3575SL1**

1M

35x7.5

**TS3575SL1-A**

1M

35x15

**TS3515SL**

2M

SOLID

35x7.5

**TS3575SOL**

2M

35x15

**TS3515SOL**

2M

KD 3

**495 040**

100

KD 3

**495 049**

100

NPP

**450 060**

10

NPP

**450 069**

10

NPP

**450 060**

10

NPP

**450 069**

10

NPP

**450 060**

10

NPP

**450 069**

10

UK 6/2

**476 242**

25

UK 6/3

**476 243**

20

UK 6/4

**476 244**

15

UK 6/10

**476 249**

5

UK 6/2

**476 242**

25

UK 6/3

**476 243**

20

UK 6/4

**476 244**

15

UK 6/10

**476 249**

5

UK 6/2

**476 242**

25

UK 6/3

**476 243**

20

UK 6/4

**476 244**

15

UK 6/10

**476 249**

5

GE

**496 110**

50

GE

**496 119**

50

GE

**496 110**

50

GE

**496 119**

50

GE

**496 110**

50

GE

**496 119**

50



## WGO SERIES

### DISCONNECT TERMINALS

#### WGO 1

WIDTH 8 MM

--- -0- BEIGE

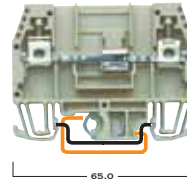
--- -9- GREY

#### WGO 2

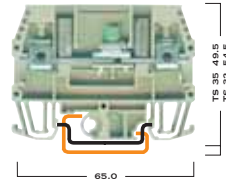
WIDTH 10 MM

--- -0- BEIGE

--- -9- GREY



TORQUE: 0.8 NM



TORQUE: 1.2 NM

#### ELECTRICAL RATINGS

VOLTAGE/CURRENT/CROSS-SECTION

IEC 60947-7-1

UL

INSULATION STRIPPING LENGTH

#### CONNECTION DATA

SOLID STRAND, SCREW CONNECTION

FINE STRAND, SCREW CONNECTION

AWG CONDUCTOR

#### ORDERING DATA

| PART No.                            | STD. PK.       |
|-------------------------------------|----------------|
| POLYAMIDE 6.6 W/O TEST SOCKET BEIGE | <b>370 500</b> |
| W/ TEST SOCKET BEIGE                | <b>370 501</b> |
| DOUBLE TEST SOCKET BEIGE            | <b>370 502</b> |
| W/O TEST SOCKET GREY                | <b>370 590</b> |
| W/ TEST SOCKET GREY                 | <b>370 591</b> |
| DOUBLE TEST SOCKET GREY             | <b>370 592</b> |

#### MOUNTING RAILS

| TYPE      | PART No.         | STD. PK. |
|-----------|------------------|----------|
| TS 35x7.5 | TS 35x15 SLOTTED |          |
| TS 35x7.5 | TS 35x15 SLOTTED |          |



STEEL SLOT DIM.  
25MM ON 36MM CENTER  
5.2MM SLOT WIDTH



ALUMINUM SLOT DIM.  
13MM ON 26MM CENTER  
5MM SLOT WIDTH

#### END BRACKET

| THICKNESS 8MM | BEIGE |
|---------------|-------|
| KD 3          | GREY  |



#### END PLATE

| THICKNESS 1.5MM | BEIGE |
|-----------------|-------|
| NPP WGO 1-2     | GREY  |



#### SMALL PARTITION



| BEIGE |
|-------|
| AD 2  |
| GREY  |
| AD 2  |

#### CROSS CONNECTION



#### SWITCHABLE CROSS CONNECTION LINKS



#### TEST PLUG-SOC. / INS. TEST SOC.

TF TSK

#### GROUP MARKING



| BEIGE |
|-------|
| GE    |
| GREY  |
| GE    |

#### MARKING TAGS

SEE PAGE 34 FOR FURTHER DETAIL.



## PSK SERIES

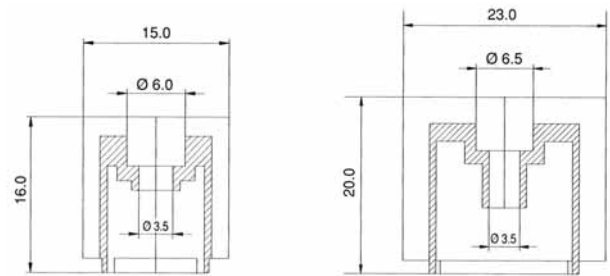
### PSK 1

### PSK 2

#### TERMINAL STRIPS



| ELECTRICAL RATINGS                                                |                         |          |          |                       |          |          |
|-------------------------------------------------------------------|-------------------------|----------|----------|-----------------------|----------|----------|
| VOLTAGE/CURRENT/CROSS-SECTION<br>VDE (IEC 60998-1, IEC 60998-2-1) | 380 V~ / 25 A / 2.5 MM² |          |          | 600 V~ / 47 A / 6 MM² |          |          |
|                                                                   | 400 V~ / 24 A / 2.5 MM² |          |          | 600 V~ / 41 A / 6 MM² |          |          |
|                                                                   |                         |          |          |                       |          |          |
|                                                                   |                         |          |          |                       |          |          |
| INSULATION STRIPPING LENGTH                                       | 5 MM                    |          |          | 9 MM                  |          |          |
| ORDERING DATA                                                     | TYPE                    | PART No. | STD. PK. | TYPE                  | PART No. | STD. PK. |
| CAN BE JOINED END TO END                                          | PSK1/2 (2'Li)           | 420 020  | 100      | PSK2/2 (2'Li)         | 421 020  | 100      |
|                                                                   | PSK1/12 (12'Li)         | 420 120  | 75       | PSK2/10 (10'Li)       | 421 120  | 30       |



## SK SERIES

### SK 1-2-3-4

#### TERMINAL STRIPS



| ELECTRICAL RATINGS                                  |                                     |                                   |                                   |                                    |
|-----------------------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|
| VOLTAGE/CROSS-SECTION<br>IEC 60998-1<br>UL          | 380 V~ 450 V- / 2.5 MM <sup>2</sup> | 380 V~ 450 V- / 4 MM <sup>2</sup> | 380 V~ 450 V- / 6 MM <sup>2</sup> | 380 V~ 450 V- / 10 MM <sup>2</sup> |
|                                                     | 450 V / 24 A / 2.5 MM <sup>2</sup>  | 450 V / 32 A / 4 MM <sup>2</sup>  | 450 V / 41 A / 6 MM <sup>2</sup>  | 450 V / 41 A / 10 MM <sup>2</sup>  |
| CONNECTION DATA                                     |                                     |                                   |                                   |                                    |
| SOLID STRAND, SCREW CONNECTION                      | 0.75 – 4 MM <sup>2</sup>            | 0.75 – 6 MM <sup>2</sup>          | 0.75 – 10 MM <sup>2</sup>         | 0.75 – 16 MM <sup>2</sup>          |
| FINE STRAND, SCREW CONNECTION                       | 1.5 – 2.5 MM <sup>2</sup>           | 1.5 – 4 MM <sup>2</sup>           | 1.5 – 6 MM <sup>2</sup>           | 1.5 – 10 MM <sup>2</sup>           |
| ORDERING DATA                                       |                                     |                                   |                                   |                                    |
|                                                     | TYPE                                | PART No.                          | STD. PK.                          | TYPE                               |
| BLACK (W/ SCREW BLOCKAGE, PASSIVE)                  | SK 1                                | <b>430 012</b>                    | 50                                | SK 2                               |
|                                                     |                                     |                                   |                                   | <b>430 022</b>                     |
|                                                     |                                     |                                   |                                   | 50                                 |
|                                                     | SK 3                                | <b>430 032</b>                    | 50                                | SK 4                               |
|                                                     |                                     |                                   |                                   | <b>430 042</b>                     |
|                                                     |                                     |                                   |                                   | 50                                 |
| WHITE (W/ SCREW BLOCKAGE, NI COATED, NON-FLAMMABLE) | SK 1                                | <b>432 012</b>                    | 50                                | SK 2                               |
|                                                     |                                     |                                   |                                   | <b>432 022</b>                     |
|                                                     |                                     |                                   |                                   | 50                                 |
|                                                     | SK 3                                | <b>432 032</b>                    | 50                                | SK 4                               |
|                                                     |                                     |                                   |                                   | <b>432 042</b>                     |
|                                                     |                                     |                                   |                                   | 50                                 |



## FEED-THROUGH TERMINAL ACCESSORIES

### CABLE MARKING SLEEVES

MATERIAL: FLEXIBLE PLASTIC PVC FOR KG 1 – KG 2 (RESISTANT TO FLAME).

POLYAMIDE 6.6 FOR KE 1 – KE 2.

AMBIENT TEMPERATURE: -30° C AND + 70° C

EVERY PACKET CONTAINS ONLY ONE TYPE OF LETTER, NUMBER OR SIGN.



INS.EXT.  
DIAMETER  
2.4 – 4.4 mm<sup>2</sup>

FOR CONDUCTORS OF  
0.75 – 4 mm<sup>2</sup>



INS.EXT.  
DIAMETER  
4.0 – 8.5 mm<sup>2</sup>

FOR CONDUCTORS OF  
4 – 16 mm<sup>2</sup>



KE1

FOR CONDUCTORS OF  
0.75 ..... 1.5 mm<sup>2</sup>



KE2

FOR CONDUCTORS OF  
1.50 ..... 2.5 mm<sup>2</sup>



KE3

FOR CONDUCTORS OF  
4 - 6 mm<sup>2</sup>

| TYPE | FOR CONDUCTORS mm <sup>2</sup> | QUANTITY |
|------|--------------------------------|----------|
| KG 1 | 0.75 – 4                       | 100      |
| KG 2 | 4 – 16                         | 50       |
| KE 1 | 0.75 – 1.5                     | 500      |
| KE 2 | 1.5 – 2.5                      | 500      |
| KE 3 | 4 – 6                          | 500      |

|         |           | CLOSED TYPE |         |       | OPEN TYPE |         |         |       |
|---------|-----------|-------------|---------|-------|-----------|---------|---------|-------|
|         | CHARACTER | KG 1        | KG 2    | COLOR | KE 1      | KE 2    | KE 3    | COLOR |
| NUMBERS | 0         | 515 000     | 516 000 |       | 517 000   | 518 000 | 519 000 |       |
|         | 1         | 515 001     | 516 001 |       | 517 001   | 518 001 | 519 001 |       |
|         | 2         | 515 002     | 516 002 |       | 517 002   | 518 002 | 519 002 |       |
|         | 3         | 515 003     | 516 003 |       | 517 003   | 518 003 | 519 003 |       |
|         | 4         | 515 004     | 516 004 |       | 517 004   | 518 004 | 519 004 |       |
|         | 5         | 515 005     | 516 005 |       | 517 005   | 518 005 | 519 005 |       |
|         | 6         | 515 006     | 516 006 |       | 517 006   | 518 006 | 519 006 |       |
|         | 7         | 515 007     | 516 007 |       | 517 007   | 518 007 | 519 007 |       |
|         | 8         | 515 008     | 516 008 |       | 517 008   | 518 008 | 519 008 |       |
|         | 9         | 515 009     | 516 009 |       | 517 009   | 518 009 | 519 009 |       |
| LETTERS | A         | 515 010     | 516 010 |       | 517 010   | 518 010 | 519 010 |       |
|         | B         | 515 011     | 516 011 |       | 517 011   | 518 011 | 519 011 |       |
|         | C         | 515 012     | 516 012 |       | 517 012   | 518 012 | 519 012 |       |
|         | D         | 515 013     | 516 013 |       | 517 013   | 518 013 | 519 013 |       |
|         | E         | 515 014     | 516 014 |       | 517 014   | 518 014 | 519 014 |       |
|         | F         | 515 015     | 516 015 |       | 517 015   | 518 015 | 519 015 |       |
|         | G         | 515 016     | 516 016 |       | 517 016   | 518 016 | 519 016 |       |
|         | H         | 515 017     | 516 017 |       | 517 017   | 518 017 | 519 017 |       |
|         | I         | 515 018     | 516 018 |       | 517 018   | 518 018 | 519 018 |       |
|         | J         | 515 019     | 516 019 |       | 517 019   | 518 019 | 519 019 |       |
|         | K         | 515 020     | 516 020 |       | 517 020   | 518 020 | 519 020 |       |
|         | L         | 515 021     | 516 021 |       | 517 021   | 518 021 | 519 021 |       |
|         | M         | 515 022     | 516 022 |       | 517 022   | 518 022 | 519 022 |       |
|         | N         | 515 023     | 516 023 |       | 517 023   | 518 023 | 519 023 |       |
|         | O         | 515 024     | 516 024 |       | 517 024   | 518 024 | 519 024 |       |
|         | P         | 515 025     | 516 025 |       | 517 025   | 518 025 | 519 025 |       |
|         | Q         | 515 026     | 516 026 |       | 517 026   | 518 026 | 519 026 |       |
|         | R         | 515 027     | 516 027 |       | 517 027   | 518 027 | 519 027 |       |
|         | S         |             |         |       | 517 028   | 518 028 | 519 028 |       |
|         | T         |             |         |       | 517 029   | 518 029 | 519 029 |       |
|         | U         | 515 030     | 516 030 |       | 517 030   | 518 030 | 519 030 |       |
|         | V         | 515 031     | 516 031 |       | 517 031   | 518 031 | 519 031 |       |
|         | W         | 515 032     | 516 032 |       | 517 032   | 518 032 | 519 032 |       |
|         | X         | 515 033     | 516 033 |       | 517 033   | 518 033 | 519 033 |       |
|         | Y         | 515 034     | 516 034 |       | 517 034   | 518 034 | 519 034 |       |
|         | Z         | 515 035     | 516 035 |       | 517 035   | 518 035 | 519 035 |       |
| SIGNS   | MP        | 515 040     | 516 040 |       | 517 040   | 518 040 | 519 040 |       |
|         | S         | 515 041     | 516 041 |       |           |         |         |       |
|         | T         | 515 042     | 516 042 |       |           |         |         |       |
|         | +         | 515 043     | 516 043 |       | 517 043   | 518 043 | 519 043 |       |
|         | -         | 515 044     | 516 044 |       | 517 044   | 518 044 | 519 044 |       |
|         | ↓         | 515 045     | 516 045 |       | 517 045   | 518 045 | 519 045 |       |
|         | (         | 515 046     | 516 046 |       | 517 046   | 518 046 | 519 046 |       |
|         | .         | 515 047     | 516 047 |       | 517 047   | 518 047 | 519 047 |       |
|         | /         | 515 048     | 516 048 |       | 517 048   | 518 048 | 519 048 |       |



## WIRE FERRULES

WIRE FERRULES ARE USED TO TERMINATE STRANDED WIRES AND ARE MAINLY USED WITH EUROPEAN-STYLE TERMINAL BLOCKS AND OTHER IEC CONTROL COMPONENTS. AMERICAN ELECTRICAL HAS THE WIDEST SELECTION IN NORTH AMERICA. OUR FERRULES ARE ALSO MADE FOR TWIN WIRE, ON REELS, IN STRIPS, FOR EXTRA LONG APPLICATIONS AND FOR WIRES WITH THICK INSULATION. WE COVER SIZES FROM 26 AWG TO 500MCM.

AEI IS THE ONLY COMPANY IN THE USA THAT STOCKS THREE SEPARATE COLOR CODES FOR INSULATED WIRE FERRULES – DIN, T AND W. THERE IS NO DIFFERENCE OTHER THAN COLOR FOR A GIVEN FERRULE OF THE SAME AWG SIZE. THE DIN (DEUTCHE INDUSTRIE NORMEN – GERMAN) CODE IS THE MOST WIDELY USED AND ACCEPTED.

THE T CODE WAS A FRENCH CODE DESIGNED BY TELEMCHANIQUE AND THE W CODE ANOTHER EUROPEAN CODE DEVELOPED BY WEIDMULLER. BOTH TELEMCHANIQUE AND WEIDMULLER DO NOT MANUFACTURE WIRE FERRULES.

- INSULATED FERRULES
- INSULATED FERRULES FOR WIRES WITH THICK INSULATION
- FERRULES ON STRIPS
- FERRULES ON REELS
- TWO WIRE FERRULES
- UNINSULATED FERRULES
- ASSORTMENT BOXES
- CROSS REFERENCE



## TECHNICAL INFORMATION

APART FROM GIVING A HIGH QUALITY APPEARANCE, FERRULES ALSO ENSURE THE RELIABILITY OF THE CONNECTION AND INSTALLATION.

### ADVANTAGES OF WIRE FERRULES:

- EASY INSERTION OF WIRE INTO TERMINAL
- PREVENTS FLARE OUT OF STRIPPED, STRANDED WIRE
- IMPROVED CONNECTION RELIABILITY

### WIRE FERRULES WITH PLASTIC INSULATING COLLARS:

- SIMPLE IDENTIFICATION OF THE CIRCUIT AND VOLTAGE BASED ON THE COLOR OF THE INSULATED COLLAR
- ADDITIONAL INSULATION HELPS TO ISOLATE AND PROTECT AGAINST UNWANTED CONTACT WITH ELECTRICAL CIRCUITS

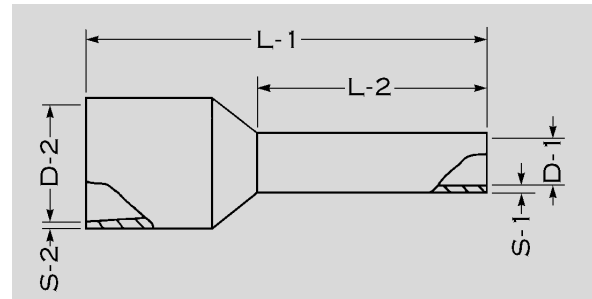
| TECHNICAL DATA                   |                       | WIRE FERRULE PULL OUT FORCES |     |                        |         |
|----------------------------------|-----------------------|------------------------------|-----|------------------------|---------|
| MATERIAL (H TYPE)                | POLYPROPYLENE PP HOMO | MM <sup>2</sup>              | AWG | PULL OUT FORCE LBS (N) | FERRULE |
| MI (MELT INDEX)                  | 12                    | 0.25                         | 24  | 3.375 (15)             | 0.25    |
| FLEXURAL                         | 1.550 MPA             | 0.25                         | 22  | 3.375 (15)             | 0.5     |
| MOLDULUS IZOD                    | 25                    | 0.5                          | 20  | 6.75 (30)              | 0.75    |
| THERMAL PROPERTIES               | 89°C                  | 1                            | 18  | 6.75 (30)              | 1       |
| H.D.T. – 4.6 KG/CM <sup>2</sup>  | 108°C                 | 1.5                          | 16  | 9 (40)                 | 1.5     |
| H.D.T. – 18.6 KG/CM <sup>2</sup> | -20°C                 | 2.5                          | 14  | 11.25 (50)             | 2.5     |
| CRYSTAL MELTING TEMP.            | 164 - 168°C           | 4                            | 12  | 11.25 (50)             | 4       |
|                                  |                       | 6                            | 10  | 13.5 (60)              | 6       |
|                                  |                       | 10                           | 8   | 18 (80)                | 10      |
|                                  |                       | 16                           | 6   | 20.25 (90)             | 16      |
|                                  |                       | 25                           | 4   | 22.5 (100)             | 25      |
|                                  |                       | 35                           | 2   | 27 (120)               | 35      |
|                                  |                       | 50                           | 1   | 31.5 (140)             | 50      |



## WIRE FERRULES INSULATED

DIN 46228

PART 4



MATERIAL: COPPER / PLASTIC  
SURFACE: TIN PLATED



| SIZE<br>MM <sup>2</sup> | AWG | DIN<br>PART<br>NO. | COLOR<br>CODE<br>DIN | T<br>PART<br>NO. | COLOR<br>CODE<br>T | W<br>PART<br>NO. | COLOR<br>CODE<br>W | PIECES<br>PER<br>BAG | DIMENSIONS (MM) |     |      |      |     |      | REC.<br>CRIMPING<br>TOOL   |
|-------------------------|-----|--------------------|----------------------|------------------|--------------------|------------------|--------------------|----------------------|-----------------|-----|------|------|-----|------|----------------------------|
|                         |     |                    |                      |                  |                    |                  |                    |                      | L-1             | L-2 | D-1  | S-1  | D-2 | S-2  |                            |
| 0.14*                   | 26  | 1161014            | GREY                 | 1163014          | BROWN              | 1162014          | GREY               | 500                  | 10.5            | 6   | 0.8  | 0.25 | 2.0 | 0.25 | TRAP24-10<br>OR<br>SQ28-10 |
| 0.14*                   |     | 1181014            |                      | 1183014          |                    | 1182014          |                    |                      | 12.5            | 8   | 0.8  | 0.25 | 2.0 | 0.25 |                            |
| 0.25*                   | 24  | 1161025            | YELLOW               | 1163025          | VIOLET             | 1162025          | BLUE               | 500                  | 10.5            | 6   | 0.8  | 0.25 | 2.0 | 0.25 |                            |
| 0.25*                   |     | 1181025            |                      | 1183025          |                    | 1182025          |                    |                      | 12.5            | 8   | 0.8  | 0.25 | 2.0 | 0.25 |                            |
| 0.34*                   | 24  | 1161034            | TURQUOISE            | 1163034          | PINK               | 1162034          | TURQUOISE          | 500                  | 10.5            | 6   | 0.8  | 0.25 | 2.0 | 0.25 |                            |
| 0.34*                   |     | 1181034            |                      | 1183034          |                    | 1182034          |                    |                      | 12.5            | 8   | 0.8  | 0.25 | 2.0 | 0.25 |                            |
| 0.50                    | 20  | 1161050            | WHITE                | 1163050          | WHITE              | 1162050          | ORANGE             | 500                  | 11.5            | 6   | 1.1  | 0.15 | 2.5 | 0.25 |                            |
| 0.50                    |     | 1181050            |                      | 1183050          |                    | 1182050          |                    |                      | 13.5            | 8   | 1.1  | 0.15 | 2.5 | 0.25 |                            |
| 0.50                    |     | 11101050           |                      | 11103050         |                    | 11102050         |                    |                      | 15.5            | 10  | 1.1  | 0.15 | 2.5 | 0.25 |                            |
| 0.75                    | 20  | 1161075            | GREY                 | 1163075          | BLUE               | 1162075          | WHITE              | 500                  | 12.0            | 6   | 1.3  | 0.15 | 2.8 | 0.25 |                            |
| 0.75                    |     | 1181075            |                      | 1183075          |                    | 1182075          |                    |                      | 14.0            | 8   | 1.3  | 0.15 | 2.8 | 0.25 |                            |
| 0.75                    |     | 11101075           |                      | 11103075         |                    | 11102075         |                    |                      | 16.0            | 10  | 1.3  | 0.15 | 2.8 | 0.25 |                            |
| 0.75                    |     | 11121075           |                      | 11123075         |                    | 11122075         |                    |                      | 18.0            | 12  | 1.3  | 0.15 | 2.8 | 0.25 |                            |
| 1.00                    | 18  | 1161010            | RED                  | 1163010          | RED                | 1162010          | YELLOW             | 500                  | 12.5            | 6   | 1.5  | 0.15 | 3.0 | 0.3  |                            |
| 1.00                    |     | 1181010            |                      | 1183010          |                    | 1182010          |                    |                      | 14.5            | 8   | 1.5  | 0.15 | 3.0 | 0.3  |                            |
| 1.00                    |     | 11101010           |                      | 11103010         |                    | 11102010         |                    |                      | 16.5            | 10  | 1.5  | 0.15 | 3.0 | 0.3  |                            |
| 1.00                    |     | 11121010           |                      | 11123010         |                    | 11122010         |                    |                      | 18.5            | 12  | 1.5  | 0.15 | 3.0 | 0.3  |                            |
| 1.50*                   | 16  | 1161015            | BLACK                | 1163015          | BLACK              | 1162015          | RED                | 500                  | 12.5            | 6   | 1.8  | 0.15 | 3.4 | 0.3  |                            |
| 1.50                    |     | 1181015            |                      | 1183015          |                    | 1182015          |                    |                      | 14.5            | 8   | 1.8  | 0.15 | 3.4 | 0.3  |                            |
| 1.50                    |     | 11101015           |                      | 11103015         |                    | 11102015         |                    |                      | 16.5            | 10  | 1.8  | 0.15 | 3.4 | 0.3  |                            |
| 1.50                    |     | 11121015           |                      | 11123015         |                    | 11122015         |                    |                      | 18.5            | 12  | 1.8  | 0.15 | 3.4 | 0.3  |                            |
| 1.50                    |     | 11181015           |                      | 11183015         |                    | 11182015         |                    |                      | 24.5            | 18  | 1.8  | 0.15 | 3.4 | 0.3  |                            |
| 2.08*                   | 14  | 1181208            | YELLOW               | 1183208          | YELLOW             | 1182208          | YELLOW             | 500                  | 14.5            | 8   | 2.05 | 0.15 | 3.6 | 0.3  |                            |
| 2.50                    | 14  | 1181025            | BLUE                 | 1183025          | GREY               | 1182025          | BLUE               | 500                  | 15.0            | 8   | 2.3  | 0.15 | 4.2 | 0.3  |                            |
| 2.50                    |     | 11121025           |                      | 11123025         |                    | 11122025         |                    |                      | 19.0            | 12  | 2.3  | 0.15 | 4.2 | 0.3  |                            |
| 2.50                    |     | 11181025           |                      | 11183025         |                    | 11182025         |                    |                      | 25.0            | 18  | 2.3  | 0.15 | 4.2 | 0.3  |                            |
| 4.00                    | 12  | 11101040           | GREY                 | 11103040         | ORANGE             | 11102040         | GREY               | 500                  | 17.5            | 10  | 2.9  | 0.2  | 4.8 | 0.3  |                            |
| 4.00                    |     | 11121040           |                      | 11123040         |                    | 11122040         |                    |                      | 20.0            | 12  | 2.9  | 0.2  | 4.8 | 0.3  |                            |
| 4.00                    |     | 11181040           |                      | 11183040         |                    | 11182040         |                    | 100                  | 26.0            | 18  | 2.9  | 0.2  | 4.8 | 0.3  |                            |
| 6.00                    | 10  | 11121060           | YELLOW               | 11123060         | GREEN              | 11122060         | BLACK              | 100                  | 20.0            | 12  | 3.6  | 0.2  | 6.2 | 0.3  |                            |
| 6.00                    |     | 11181060           |                      | 11183060         |                    | 11182060         |                    |                      | 25.0            | 18  | 3.6  | 0.2  | 6.2 | 0.3  |                            |
| 10.00                   | 8   | 11121100           | RED                  | 11123100         | BROWN              | 11122100         | IVORY              | 100                  | 21.0            | 12  | 4.6  | 0.2  | 7.5 | 0.3  |                            |
| 10.00                   |     | 11181100           |                      | 11183100         |                    | 11182100         |                    |                      | 27.0            | 18  | 4.6  | 0.2  | 7.5 | 0.3  |                            |
| 16.00                   | 6   | 11121160           | BLUE                 | 11123160         | WHITE              | 11122160         | GREEN              | 100                  | 23.0            | 12  | 6.0  | 0.2  | 8.8 | 0.4  | TRAP8-1<br>OR<br>TRAP8-4   |
| 16.00                   |     | 11181160           |                      | 11183160         |                    | 11182160         |                    |                      | 29.0            | 18  | 6.0  | 0.2  | 8.8 | 0.4  |                            |

\* DOES NOT CONFORM TO DIN 46228 PART 4

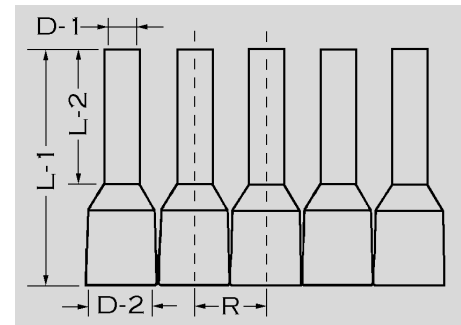




## WIRE FERRULES ON STRIPS



| SIZE<br>MM² |    | BARREL<br>LENGTH<br>(MM) | DIN<br>PART<br>NO. | COLOR<br>CODE<br>DIN | T<br>PART<br>NO. | COLOR<br>CODE<br>T | C<br>PART<br>NO. | COLOR<br>CODE<br>W | PIECES  |
|-------------|----|--------------------------|--------------------|----------------------|------------------|--------------------|------------------|--------------------|---------|
| 0.50        | 22 | 8                        | 101050             | <div></div> WHITE    | 103050           | <div></div> WHITE  | 102050           | <div></div> ORANGE | 10 x 50 |
| 0.75        | 20 | 8                        | 101075             | <div></div> GREY     | 103075           | <div></div> BLUE   | 102075           | <div></div> WHITE  | 10 x 50 |
| 1.00        | 18 | 8                        | 101100             | <div></div> RED      | 103100           | <div></div> RED    | 102100           | <div></div> YELLOW | 10 x 50 |
| 1.50        | 16 | 8                        | 101150             | <div></div> BLACK    | 103150           | <div></div> BLACK  | 102150           | <div></div> RED    | 10 x 50 |
| 2.50        | 14 | 8                        | 101250             | <div></div> BLUE     | 103250           | <div></div> GREY   | 102250           | <div></div> BLUE   | 10 x 50 |



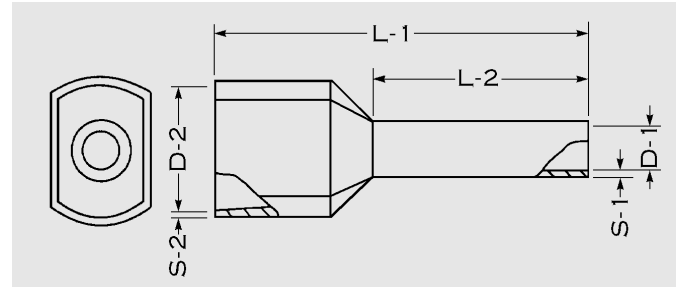
MATERIAL: COPPER / PLASTIC  
SURFACE: TIN PLATED

## WIRE FERRULES ON REELS

ALSO USED WITH MC 25

| SIZE<br>MM <sup>2</sup> | LENGTH<br>MM | PART<br>No. | COLOR<br>CODE<br>DIN | PART<br>No. | COLOR<br>CODE<br>T | PART<br>No. | COLOR<br>CODE<br>W | PIECES<br>PER<br>Box |
|-------------------------|--------------|-------------|----------------------|-------------|--------------------|-------------|--------------------|----------------------|
| 0.50                    | 8            | MC1050      | WHITE                | MC3050      | WHITE              | MC2050      | ORANGE             | 1000                 |
| 0.75                    | 8            | MC1075      | GREY                 | MC3075      | BLUE               | MC2075      | WHITE              | 1000                 |
| 1.00                    | 8            | MC1100      | RED                  | MC3100      | RED                | MC2100      | YELLOW             | 1000                 |
| 1.50                    | 8            | MC1150      | BLACK                | MC3150      | BLACK              | MC2150      | RED                | 1000                 |
| 2.50                    | 8            | MC1250      | BLUE                 | MC3250      | GREY               | MC2250      | BLUE               | 500                  |

## TWIN-WIRE FERRULES FOR TWO WIRES



MATERIAL: COPPER / PLASTIC  
SURFACE: TIN PLATED



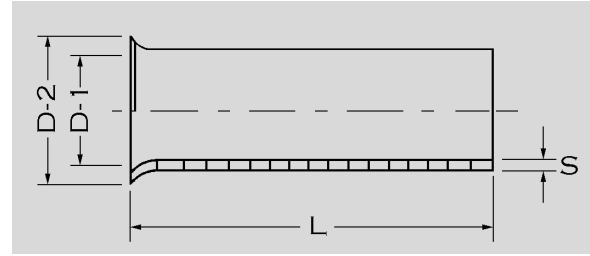
| SIZE<br>MM <sup>2</sup> | AWG | DIN<br>PART<br>No. | COLOR<br>CODE<br>DIN | W<br>PART<br>No. | COLOR<br>CODE<br>W | PCS.<br>PER<br>BAG | DIMENSIONS (MM) |      |      |      |           |      | REC.<br>CRIMPING<br>TOOL   |
|-------------------------|-----|--------------------|----------------------|------------------|--------------------|--------------------|-----------------|------|------|------|-----------|------|----------------------------|
|                         |     |                    |                      |                  |                    |                    | L-1             | L-2  | D-1  | S-1  | D-2       | S-2  |                            |
| 2 X 0.50                | 20  | 1381050            | WHITE                | 1382050          | ORANGE             | 500                | 15.0            | 8.0  | 1.5  | 0.15 | 2.3 / 4.5 | 0.25 | SQ28-10<br>OR<br>TRAP24-10 |
| 2 X 0.75                | 20  | 1381075            | GREY                 | 1382075          | WHITE              | 500                | 15.0            | 8.0  | 1.8  | 0.15 | 2.6 / 5.1 | 0.25 |                            |
| 2 X 0.75                | 20  | 13101075           |                      | 13102075         |                    | 500                | 17.0            | 10.0 | 1.8  | 0.15 | 2.6 / 5.1 | 0.25 |                            |
| 2 X 1.00                | 18  | 1381010            | RED                  | 1382010          | YELLOW             | 500                | 15.0            | 8.0  | 2.05 | 0.15 | 3.2 / 5.1 | 0.30 |                            |
| 2 X 1.00                | 18  | 13101010           |                      | 13102010         |                    | 500                | 17.0            | 10.0 | 2.05 | 0.15 | 3.2 / 5.1 | 0.30 |                            |
| 2 X 1.50                | 16  | 1381015            | BLACK                | 1382015          | RED                | 500                | 16.0            | 8.0  | 2.3  | 0.15 | 3.5 / 6.4 | 0.30 |                            |
| 2 X 1.50                | 16  | 13121015           |                      | 13122015         |                    | 500                | 20.0            | 12.0 | 2.3  | 0.15 | 3.5 / 6.4 | 0.30 |                            |
| 2 X 2.50                | 14  | 13101025           | BLUE                 | 13102025         | BLUE               | 100                | 18.5            | 10.0 | 2.9  | 0.20 | 4.0 / 7.5 | 0.30 |                            |
| 2 X 2.50                | 14  | 13131025           |                      | 13132025         |                    | 100                | 21.5            | 13.0 | 2.9  | 0.20 | 4.0 / 7.5 | 0.30 | TRAP8-1<br>OR<br>TRAP8-4   |
| 2 X 4.00                | 12  | 13121040           | GREY                 | 13122040         | GREY               | 100                | 23.0            | 12.0 | 3.8  | 0.20 | 4.9 / 8.6 | 0.30 |                            |
| 2 X 6.00                | 10  | 13141060           | YELLOW               | 13142060         | BLACK              | 100                | 25.0            | 14.0 | 4.9  | 0.20 | 5.8 / 9.6 | 0.40 |                            |
| 2 X 10.0                | 8   | 13141100           | RED                  | 13142100         | IVORY              | 100                | 26.0            | 14.0 | 6.5  | 0.20 | 6         | 0.40 |                            |
| 2 X 16.0                | 6   | 13161160           | BLUE                 | 13162160         | GREEN              | 50                 | 31.0            | 16.0 | 8.5  | 0.20 | 6         | 0.50 |                            |





## WIRE FERRULES NON-INSULATED

DIN 46228 PART 1



MATERIAL: COPPER  
SURFACE: TIN PLATED



| SIZE<br>MM <sup>2</sup> |    | PART<br>NO.                                                                 | PCS.<br>PER<br>BAG | DIMENSIONS (MM)                 |     |     |      | REC.<br>CRIMPING<br>TOOL   |
|-------------------------|----|-----------------------------------------------------------------------------|--------------------|---------------------------------|-----|-----|------|----------------------------|
|                         |    |                                                                             |                    | L                               | D-1 | D-2 | S    |                            |
| 0.25                    | 24 | 12510025*<br>12710025*                                                      | 1000               | 5<br>7                          | 0.8 | 1.7 | 0.15 | SQ28-10<br>OR<br>TRAP24-10 |
| 0.34                    | 22 | 12510034*<br>12710034*                                                      | 1000               | 5<br>7                          | 0.9 | 1.8 | 0.15 |                            |
| 0.50                    | 20 | 12610050<br>12810050*<br>121010050                                          | 1000               | 6<br>8<br>10                    | 1.0 | 2.1 | 0.15 |                            |
| 0.75                    | 20 | 12610075<br>12810075*<br>121010075<br>121210075                             | 1000               | 6<br>8<br>10<br>12              | 1.2 | 2.3 | 0.15 |                            |
| 1.00                    | 18 | 12610100<br>12810100*<br>121010100<br>121210100*                            | 1000               | 6<br>8<br>10<br>12              | 1.4 | 2.5 | 0.15 |                            |
| 1.50                    | 16 | 12710150<br>121010150<br>121210150<br>121510150*<br>121810150<br>122010150* | 1000               | 7<br>10<br>12<br>15<br>18<br>20 | 1.7 | 2.8 | 0.15 |                            |
| 2.50                    | 14 | 12710250<br>121010250<br>121210250<br>121510250*<br>121810250<br>122010250* | 1000               | 7<br>10<br>12<br>15<br>18<br>20 | 2.2 | 3.4 | 0.15 |                            |
| 4.00                    | 12 | 12910400<br>121010400<br>121210400<br>121510400<br>121810400<br>122010400*  | 1000               | 9<br>10<br>12<br>15<br>18<br>20 | 2.8 | 4.0 | 0.2  |                            |

| SIZE<br>MM <sup>2</sup> | AWG | PART<br>NO.                                                     | PCS.<br>PER<br>BAG | DIMENSIONS (MM)                  |      |     |     | REC.<br>CRIMPING<br>TOOL   |
|-------------------------|-----|-----------------------------------------------------------------|--------------------|----------------------------------|------|-----|-----|----------------------------|
|                         |     |                                                                 |                    | L                                | D-1  | D-2 | S   |                            |
| 6.00                    | 10  | 121010600<br>121210600<br>121510600<br>121810600                | 1000               | 10<br>12<br>15<br>18             | 3.5  | 4.7 | 0.2 | SQ28-10<br>OR<br>TRAP24-10 |
| 10.00                   | 8   | 1212110<br>1215110<br>1218110<br>1220110*<br>1225110*           | 500                | 12<br>15<br>18<br>20<br>25       | 4.5  | 5.8 | 0.2 |                            |
| 16.00                   | 6   | 1212116<br>1215116<br>1218116<br>1220116*<br>1225116<br>1232116 | 250                | 12<br>15<br>18<br>20<br>25<br>32 | 5.8  | 7.5 | 0.2 |                            |
| 25.00                   | 4   | 1212125*<br>1215125<br>1218125<br>1225125<br>1232125            | 100                | 12<br>15<br>18<br>25<br>32       | 7.3  | 9.5 | 0.2 |                            |
| 35.00                   | 2   | 1218135<br>1220135*<br>1225135<br>1232135                       | 100                | 18<br>20<br>25<br>32             | 8.3  | 11  | 0.2 |                            |
| 50.00                   | 1   | 1218150<br>1222150*<br>1225150<br>1232150                       | 100                | 18<br>22<br>25<br>32             | 10.3 | 13  | 0.3 |                            |
| 70.00                   | 2/0 | 1225170<br>1232170*                                             | 100                | 25<br>32                         | 12.5 | 15  | 0.4 |                            |

\* DOES NOT CONFORM TO DIN 46228 PART 1



| SIZE<br>MM <sup>2</sup> | AWG | PART<br>NO. | PCS.<br>PER<br>BAG | DIMENSIONS (MM) |      |      |     | REC.<br>CRIMPING<br>TOOL |
|-------------------------|-----|-------------|--------------------|-----------------|------|------|-----|--------------------------|
|                         |     |             |                    | L               | D-1  | D-2  | S   |                          |
| 95.0                    | 3/0 | 1225195*    | 100                | 25              | 14.5 | 17   | 0.4 | VICE70150                |
|                         |     | 1230195*    |                    | 30              |      |      |     |                          |
|                         |     | 1232195*    |                    | 32              |      |      |     |                          |
| 120.0                   | 4/0 | 12321120*   | 100                | 32              | 16.5 | 19   | 0.5 |                          |
|                         |     | 12401120*   |                    | 40              |      |      |     |                          |
| 150.0                   | 300 | 123211500*  | 100                | 32              | 18.5 | 21   | 0.5 |                          |
|                         | MCM | 123811500*  |                    | 38              |      |      |     |                          |
| 185.0                   | 350 | 123211850*  | 100                | 32              | 20   | 23.5 | 0.6 |                          |
|                         | MCM | 124011850*  |                    | 40              |      |      |     |                          |





## ASSORTMENT BOXES

| INSULATED FERRULES | SIZE MM² | AWG | BARREL LENGTH | QUANTITY | PART NUMBER | DIN    | PART DIN | T      | PART T | W      | PART W |
|--------------------|----------|-----|---------------|----------|-------------|--------|----------|--------|--------|--------|--------|
| ASSORTMENT         | 0.25     | 26  | 6             | 30       | 161025      | YELLOW | 163025   | VIOLET | 162025 | BLUE   |        |
| Box 1              | 0.34     | 24  | 6             | 30       |             | TURQ   |          | PINK   |        | TURQ   |        |
|                    | 0.50     | 22  | 8             | 30       |             | WHITE  |          | WHITE  |        | ORANGE |        |
|                    | 0.75     | 20  | 8             | 30       |             | GREY   |          | BLUE   |        | WHITE  |        |
|                    | 1.00     | 18  | 8             | 30       |             | RED    |          | RED    |        | YELLOW |        |
| ASSORTMENT         | 0.50     | 22  | 8             | 50       | 161050      | WHITE  | 163050   | WHITE  | 162050 | ORANGE |        |
| Box 2              | 0.75     | 20  | 8             | 100      |             | GREY   |          | BLUE   |        | WHITE  |        |
|                    | 1.00     | 18  | 8             | 100      |             | RED    |          | RED    |        | YELLOW |        |
|                    | 1.50     | 16  | 8             | 100      |             | BLACK  |          | BLACK  |        | RED    |        |
|                    | 2.50     | 14  | 8             | 50       |             | BLUE   |          | GREY   |        | BLUE   |        |
| ASSORTMENT         | 4.00     | 12  | 10            | 50       | 16140       | GREY   | 16340    | ORANGE | 16240  | GREY   |        |
| Box 3              | 6.00     | 10  | 12            | 20       |             | YELLOW |          | GREEN  |        | BLACK  |        |
|                    | 10.00    | 8   | 12            | 20       |             | RED    |          | BROWN  |        | IVORY  |        |
|                    | 16.00    | 6   | 12            | 10       |             | BLUE   |          | WHITE  |        | GREEN  |        |
| ASSORTMENT         | 0.50     | 22  | 8             | 50       | 16050T      | WHITE  |          |        |        |        |        |
| Box 4              | 0.75     | 20  | 8             | 50       |             | GREY   |          |        |        |        |        |
| TWIN               | 1.00     | 18  | 8             | 50       |             | RED    |          |        |        |        |        |
|                    | 1.50     | 16  | 8             | 50       |             | BLACK  |          |        |        |        |        |
| ASSORTMENT         | 0.75     | 20  | 8             | 50       | 16075T      | WHITE  |          |        |        |        |        |
| Box 5              | 1.00     | 18  | 8             | 50       |             | GREY   |          |        |        |        |        |
| TWIN               | 1.50     | 16  | 8             | 50       |             | RED    |          |        |        |        |        |
|                    | 2.50     | 14  | 10            | 50       |             | BLACK  |          |        |        |        |        |
| ASSORTMENT         | 1.50     | 16  | 8             | 30       | 16150T      | BLACK  |          |        |        |        |        |
| Box 6              | 2.50     | 14  | 10            | 30       |             | BLUE   |          |        |        |        |        |
| TWIN               | 4.00     | 12  | 12            | 20       |             | GREY   |          |        |        |        |        |
|                    | 6.00     | 10  | 14            | 10       |             | YELLOW |          |        |        |        |        |
| ASSORTMENT         | 0.50     | 22  | 6             | 500      | 16050U      |        |          |        |        |        |        |
| Box 7              | 0.75     | 20  | 6             | 400      |             |        |          |        |        |        |        |
| NONINSULATED       | 1.00     | 18  | 6             | 400      |             |        |          |        |        |        |        |
|                    | 1.50     | 16  | 7             | 300      |             |        |          |        |        |        |        |
|                    | 2.50     | 14  | 7             | 200      |             |        |          |        |        |        |        |
| ASSORTMENT         | 1.50     | 16  | 9             | 150      | 16040U      |        |          |        |        |        |        |
| Box 8              | 2.50     | 14  | 10            | 100      |             |        |          |        |        |        |        |
| NONINSULATED       | 4.00     | 12  | 12            | 80       |             |        |          |        |        |        |        |
|                    | 6.00     | 10  | 12            | 40       |             |        |          |        |        |        |        |
| ASSORTMENT         |          |     |               |          | 165         |        |          |        |        |        |        |
| Box EMPTY          |          |     |               |          |             |        |          |        |        |        |        |
| 5 DIVISIONS        |          |     |               |          |             |        |          |        |        |        |        |
| ASSORTMENT         |          |     |               |          | 164         |        |          |        |        |        |        |
| Box EMPTY          |          |     |               |          |             |        |          |        |        |        |        |
| 4 DIVISIONS        |          |     |               |          |             |        |          |        |        |        |        |
| ASSORTMENT         |          |     |               |          | 160         |        |          |        |        |        |        |
| Box EMPTY          |          |     |               |          |             |        |          |        |        |        |        |
| W/O DIVISIONS      |          |     |               |          |             |        |          |        |        |        |        |

## CRIMP KIT



### FEATURES

CONVENIENT AND PORTABLE METAL CARRYING CASE  
INSULATED FERRULES  
FERRULE ASSORTMENT FROM 24 - 10 AWG  
STRIPPING AND CRIMPING TOOL INCLUDED  
GREAT FOR TECHNICIANS AND PROTOTYPING

## SLIDE BOXES



### FEATURES

HANDY, CONVENIENT  
NO MIXING OF CONTENTS  
FIVE COMPARTMENTS  
INSULATED FERRULE ASSORTMENTS

|                            |     |                  |          |                | DIN               |                | W               |
|----------------------------|-----|------------------|----------|----------------|-------------------|----------------|-----------------|
| SIZE<br>MM <sup>2</sup>    | AWG | BARREL<br>LENGTH | QUANTITY | PART<br>NUMBER | COLOR CODE<br>DIN | PART<br>NUMBER | COLOR CODE<br>W |
| SINGLE FERRULE ASSORTMENTS |     |                  |          |                |                   |                |                 |
| 0.50                       | 22  | 8                | 50       | 1617050        | WHITE             | 1627050        | ORANGE          |
| 0.75                       | 20  | 8                | 100      |                | GREY              |                | WHITE           |
| 1.00                       | 18  | 8                | 100      |                | RED               |                | YELLOW          |
| 1.50                       | 16  | 8                | 100      |                | BLACK             |                | RED             |
| 2.50                       | 14  | 8                | 50       |                | BLUE              |                | BLUE            |
| 4.00                       | 12  | 10               | 50       | 1617400        | GREY              | 1627400        | GREY            |
| 6.00                       | 10  | 12               | 20       |                | YELLOW            |                | BLACK           |
| 10.00                      | 8   | 12               | 20       |                | RED               |                | BEIGE           |
| 16.00                      | 6   | 12               | 10       |                | BLUE              |                | GREEN           |
| TWIN FERRULE ASSORTMENTS   |     |                  |          |                |                   |                |                 |
| 2 x 0.50                   | 22  | 8                | 50       | 1617050T       | WHITE             | 1627050T       | ORANGE          |
| 2 x 0.75                   | 20  | 8                | 50       |                | GREY              |                | WHITE           |
| 2 x 1.00                   | 18  | 8                | 50       |                | RED               |                | YELLOW          |
| 2 x 1.50                   | 16  | 8                | 50       |                | BLACK             |                | RED             |
| 2 x 2.50                   | 14  | 10               | 25       |                | BLUE              |                | BLUE            |







## WAGO

| PART #  | PCS./BAG | MM   | AWG | PART #           | COLOR  | PCS./BAG |
|---------|----------|------|-----|------------------|--------|----------|
|         |          | 0.14 | 26  | <b>1161014</b>   | GREY   | 500      |
|         |          | 0.14 | 26  | <b>1181014</b>   | GREY   | 500      |
| 216201  | 1000     | 0.5  | 22  | <b>1181050</b>   | WHITE  | 500      |
| 216203  | 1000     | 1    | 18  | <b>1181010</b>   | RED    | 500      |
| 216204  | 1000     | 1.5  | 16  | <b>1181015</b>   | BLACK  | 500      |
| 216205  | 1000     | 2.1  | 14  | <b>1181208</b>   | YELLOW | 500      |
| 216206  | 1000     | 2.5  | 14  | <b>1183025</b>   | GREY   | 500      |
| 216207  | 1000     | 4    | 12  | <b>11103040</b>  | ORANGE | 500      |
| 216208  | 100      | 6    | 10  | <b>11123060</b>  | GREEN  | 100      |
| 216209  | 100      | 10   | 8   | <b>11123100</b>  | BROWN  | 100      |
| 216210  | 100      | 16   | 6   | <b>11123160</b>  | WHITE  | 100      |
| 216221  | 1000     | 0.5  | 22  | <b>1161050</b>   | WHITE  | 500      |
| 216222  | 1000     | 0.75 | 20  | <b>1163075</b>   | BLUE   | 500      |
| 216223  | 1000     | 1    | 18  | <b>1161010</b>   | RED    | 500      |
| 216224  | 1000     | 1.5  | 16  | <b>1161015</b>   | BLACK  | 500      |
| 216301  | 1000     | 0.25 | 24  | <b>11810025</b>  | YELLOW | 500      |
| 216302  | 1000     | 0.34 | 24  | <b>1181034</b>   | TURQ   | 500      |
| 216321  | 1000     | 0.25 | 24  | <b>11610025</b>  | YELLOW | 500      |
| 216322  | 1000     | 0.34 | 24  | <b>1161034</b>   | TURQ   | 500      |
| 2162020 | 1000     | 0.75 | 20  | <b>1181075</b>   | BLUE   | 500      |
|         |          |      |     |                  |        |          |
| 216101  | 1000     | 0.5  | 22  | <b>12810050</b>  |        | 1000     |
| 216102  | 1000     | 0.75 | 20  | <b>12810075</b>  |        | 1000     |
| 216103  | 1000     | 1    | 18  | <b>12810100</b>  |        | 1000     |
| 216104  | 1000     | 1.5  | 16  | <b>12810150</b>  |        | 1000     |
| 216106  | 1000     | 2.5  | 14  | <b>121010250</b> |        | 1000     |
| 216107  | 1000     | 4    | 12  | <b>12910400</b>  |        | 1000     |
| 216108  | 250      | 6    | 10  | <b>121210600</b> |        | 1000     |
| 216109  | 250      | 10   | 8   | <b>1212110</b>   |        | 500      |
| 216110  | 250      | 16   | 6   | <b>1215116</b>   |        | 500      |
| 216121  | 1000     | 0.5  | 22  | <b>12610050</b>  |        | 1000     |
| 216122  | 1000     | 0.75 | 20  | <b>12610075</b>  |        | 1000     |
| 216123  | 1000     | 1    | 18  | <b>12610100</b>  |        | 1000     |
| 216124  | 1000     | 1.5  | 16  | <b>12710150*</b> |        | 1000     |
| 216131  | 1000     | 0.25 | 24  | <b>12710025</b>  |        | 1000     |
| 216132  | 1000     | 0.34 | 24  | <b>12710034</b>  |        | 1000     |
| 216151  | 1000     | 0.25 | 24  | <b>12510025</b>  |        | 1000     |
| 216152  | 1000     | 0.34 | 24  | <b>12510034</b>  |        | 1000     |
|         |          |      |     |                  |        |          |

## AMERICAN ELECTRICAL







## **WIRE FERRULE CRIMPING SOLUTIONS: HAND, PNEUMATIC AND AUTOMATIC TOOLS**

AMERICAN ELECTRICAL HAS A WIDE RANGE OF LOW COST, HIGH QUALITY HAND, PNEUMATIC AND AUTOMATIC TOOLS FOR CRIMPING WIRE FERRULES, STRIPPING AND CUTTING WIRE.

WE OFFER BOTH PNEUMATIC AND ELECTRICAL EQUIPMENT TO HELP COMBAT THE FATIGUE AND THE HIGH LABOR ASSOCIATED WITH CRIMPING WIRE FERRULES. OUR PNEUMATIC CRIMPERS COVER FROM 24 AWG TO 8 AWG AND COME IN A LIGHTWEIGHT HANDHELD OR “HANDSFREE” BENCH MODEL. THE CRIMP MAX OPERATES ON 120 VAC AND WILL STRIP AND CRIMP WIRES IN 1.5 SECONDS. IT WEIGHS ONLY 26 POUNDS, PORTABLE ENOUGH TO SUPPORT LOCATIONS AT THE FACTORY FLOOR AND RUGGED ENOUGH TO WITHSTAND IT.

ALL OF OUR TOOLS ARE MADE FROM THE HIGHEST QUALITY MATERIALS FOR LONGEVITY AND ACCURATE CRIMPING.



## WIRE FERRULE HAND CRIMPING TOOLS



### TRAP 24 - 10

TRAPEZOID CRIMPING  
WITH RATCHET, SIDE ENTRY  
RANGE: 24-10 AWG (0.25-6.0 mm<sup>2</sup>)  
FOR SINGLE CONDUCTOR FERRULES  
20-14 AWG (0.5-2.5 mm<sup>2</sup>) FOR  
TWIN FERRULES (TWO WIRES)  
LENGTH: 7.5 INCHES (190 MM)  
WEIGHT: 12.3 OUNCES (350 G)



### TRAP 24 - 10 F

TRAPEZOID CRIMPING  
WITH RATCHET, FRONT ENTRY  
UNIVERSAL DIE  
RANGE: 24-10 AWG (0.25-6.0 mm<sup>2</sup>)  
FOR SINGLE CONDUCTOR FERRULES  
20-14 AWG (0.5-2.5 mm<sup>2</sup>) FOR  
TWIN FERRULES (TWO WIRES)  
LENGTH: 8.7 INCHES (220 MM)  
WEIGHT: 15.1 OUNCES (430 G)



### TRAP 22 - 10

TRAPEZOID CRIMPING  
WITH RATCHET, FRONT ENTRY  
UNIVERSAL DIE  
RANGE: 22-10 AWG (0.5-6.0 mm<sup>2</sup>)  
FOR SINGLE CONDUCTOR FERRULES  
20-14 AWG (0.5-2.5 mm<sup>2</sup>) FOR  
LENGTH: 8.25 INCHES (209 MM)  
WEIGHT: 14.8 OUNCES (460 G)



### TRAP 8 - 4

TRAPEZOID CRIMPING  
WITH RATCHET, SIDE ENTRY  
RANGE: 8-4 AWG (10.0-25.0 mm<sup>2</sup>)  
LENGTH: 8.7 INCHES (220 MM)  
WEIGHT: 18.7 OUNCES (530 G)



### TRAP 2 - 1

TRAPEZOID CRIMPING  
WITH RATCHET, SIDE ENTRY  
RANGE: 2-1 AWG (35.0-50.0 mm<sup>2</sup>)  
LENGTH: 8.7 INCHES (220 MM)  
WEIGHT: 18.7 OUNCES (530 G)



### TRAP 8 - 1

TRAPEZOID CRIMPING  
WITH RATCHET, SIDE ENTRY  
RANGE: 8-1 AWG (10.0-50.0 mm<sup>2</sup>)  
FOR SINGLE CONDUCTOR FERRULES  
12-6 AWG (4.0-16.0 mm<sup>2</sup>) FOR  
TWIN FERRULES (TWO WIRES)  
LENGTH: 13.4 INCHES (340 MM)  
WEIGHT: 28.1 OUNCES (800 G)



## FERRULE CRIMPING TOOLS



### TRAP 24 - 14 L

TRAPEZOID CRIMPING

NO RATCHET, SIDE ENTRY

RANGE: 24-14 AWG (0.25-2.5 mm<sup>2</sup>)

LENGTH: 5.9 INCHES (150 MM)

WEIGHT: 5.6 OUNCES (160 G)



### IND 20 - 14 L

INDENT CRIMPING

NO RATCHET, UNIVERSAL DIE, SIDE ENTRY

RANGE: 20-14 AWG (0.5-2.5 mm<sup>2</sup>)

LENGTH: 5.9 INCHES (150 MM)

WEIGHT: 7.0 OUNCES (200 G)



### IND 20 - 6 L

INDENT CRIMPING

NO RATCHET, SIDE ENTRY

RANGE: 20-6 AWG (0.5-16.0 mm<sup>2</sup>)

FOR SINGLE CONDUCTOR FERRULES

20-10 AWG (0.5-6.0 mm<sup>2</sup>)

FOR TWIN FERRULES

LENGTH: 9.1 INCHES (230 MM)

WEIGHT: 8.8 OUNCES (250 G)



### SQ 28 - 10

SQUARE CRIMPING

WITH RATCHET, SIDE ENTRY

UNIVERSAL DIE

RANGE: 28-8 AWG (0.25-6.0 mm<sup>2</sup>)

FOR SINGLE CONDUCTOR FERRULES

20-14 AWG (0.5-2.5 mm<sup>2</sup>)

FOR TWIN FERRULES

LENGTH: 7.1 INCHES (180 MM)

WEIGHT: 13.7 OUNCES (390 G)



### TRAP 12 - 8 TW

TRAPEZOID CRIMPING

WITH RATCHET, SIDE ENTRY

FOR TWIN FERRULES

RANGE: 12-8 AWG (4.0-10.0 mm<sup>2</sup>)

LENGTH: 8.7 INCHES (220 MM)

WEIGHT: 18.7 OUNCES (530 G)



### STCR 20-14

STRIP FERRULE STRIPPER & CRIMPER

TRAPEZOID CRIMPER

CRIMPS STRIP FERRULES

0.5 - 2.5 mm<sup>2</sup>

20 - 14 AWG

EASILY STRIPS CABLES

CABLE CUTTER LOCATED ON TOP

## CABLE STRIPPER



### STRIP 28 - 10

WIRE INSULATION STRIPPER  
WITH WIRE CUTTER

RANGE: 28-10 AWG (0.08-6.0 MM<sup>2</sup>)  
LENGTH: 8.1 INCHES (205 MM)  
WEIGHT: 7.0 OUNCES (200 G)

## CABLE CUTTER



### CUT 6

CABLE CUTTER

RANGE: 6 AWG (16.0 MM<sup>2</sup>) MAXIMUM  
LENGTH: 6.5 INCHES (165 MM)  
WEIGHT: 4.2 OUNCES (120 G)

## CRIMPING TOOL FOR WIRE LUGS

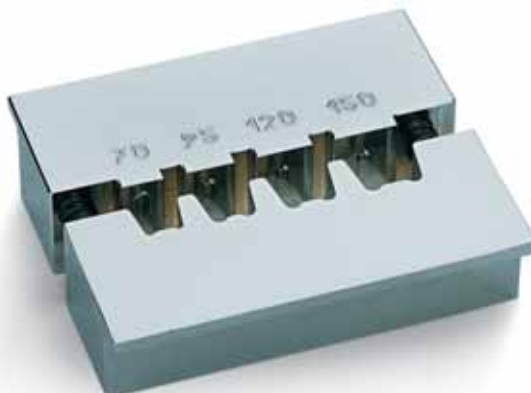


### LUG 20 - 10

CRIMPING TOOL  
FOR INSULATED WIRE LUGS

RANGE: 20-10 AWG (0.5-6.0 MM<sup>2</sup>)  
LENGTH: 8.7 INCHES (220MM)  
WEIGHT: 18.3 OUNCES (520 G)

## FERRULE CRIMPER FOR LARGE WIRES



### VICE 70150

TRAPEZOID VICE CRIMPER  
CRIMPS FERRULES

70-150 MM\_  
2/0 AWG - 300 MCM

FITS STANDARD BENCH MOUNTED VICE  
SPRING LOADED FOR EASY RETRACTION  
COMPOSED OF STAINLESS STEEL  
FOUR INDIVIDUAL DIES



## CRIMP-MAX MC 25

AUTOMATIC FERRULE  
STRIPPING & CRIMPING MACHINE  
FOR 20 AWG TO 14 AWG WIRES



### YOUR EFFICIENT HELPER FOR STRIPPING & CRIMPING INSULATED WIRE FERRULES

- THE MC 25 AT 26 POUNDS (12 KG) IS A VERY LIGHT MACHINE. IT CAN BE EASILY TRANSPORTED TO VARIOUS WORK STATIONS.
- IT DOES NOT REQUIRE PRESSURIZED AIR, BUT ONLY A 120 V STANDARD POWER CONNECTION.
- IT TAKES ONLY 1.5 SECONDS TO STRIP AND CRIMP THE INDIVIDUAL WIRES.
- THE MC 25 PROCESSES WIRE FERRULE SIZES 20 AWG TO 14 AWG (0.5 TO 2.5 SQUARE MILLIMETERS) IN THE STANDARD LENGTH OF 8 MM.
- YOU CAN CHANGE THE CRIMP MECHANISM FOR THE SIZE OF THE FERRULES IN A MATTER OF SECONDS WITHOUT ANY ADDITIONAL TOOLS - SIMPLY SNAP IT IN AND IT IS READY TO GO.
- ALL THE CRIMP MECHANISMS NECESSARY ARE CLEARLY LAID OUT IN THE CASE PROVIDED.
- AN ADVANCED MICROPROCESSOR-CONTROLLED CAM DRIVE ENSURES RELIABLE OPERATION.
- THE WIRE FERRULES IN REEL FORM ARE FED VIA A DISPENSER FITTED TO THE RIGHT SIDE OF THE MACHINE FOR EASY HANDS FREE OPERATION.
- THE INSULATED FERRULES USED FOR THIS MACHINE COME IN 1000 PIECE OR 500 PIECE REELS (TAPED MOUNTED) PACKAGED IN A COMPACT CARDBOARD CASE AND ARE FED INTO THE MACHINE AUTOMATICALLY.
- THE MACHINE HAS AN INTEGRAL REEL HOLDER WHICH KEEPS THE FERRULES IN PLACE DURING OPERATION.
- VIDEO OF OPERATION AVAILABLE AT [WWW.AMERICANELECTRICAL.COM/](http://WWW.AMERICANELECTRICAL.COM/).

### MC 25 TECHNICAL DATA

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| POWER SUPPLY:             | 120 VAC / 60 HZ                                   |
| POWER CONSUMPTION:        | 80 VA                                             |
| OPERATING RANGE:          | 20 - 14 AWG (0.5 - 2.5 SQUARE MILLIMETERS)        |
| WIRE FERRULES:            | IN ACCORDANCE WITH DIN 46 228 PART 4 TAPE MOUNTED |
| CRIMP TYPE:               | TRAPEZOIDAL                                       |
| CYCLE:                    | 1.5 SECONDS, APPROXIMATELY                        |
| CONTROL:                  | MICROPROCESSOR-CONTROLLED CAM DRIVE               |
| UNIT COUNTER:             | LCD DISPLAY                                       |
| CHANGING CRIMP MECHANISM: | UNDER 10 SECONDS                                  |
| DIMENSIONS (W x H x D):   | 6.5 x 10.6 x 12.6 INCHES (165 x 270 x 320 MM)     |
| WEIGHT:                   | 26 POUNDS (12 KG)                                 |



## WIRE FERRULES ON REELS

FOR USE WITH MC 25

| SIZE<br>MM <sup>2</sup> | LENGTH<br>MM | PART<br>NO. | COLOR<br>CODE<br>DIN | PART<br>NO. | COLOR<br>CODE<br>T | PART<br>NO. | COLOR<br>CODE<br>W | PIECES<br>PER<br>BOX |
|-------------------------|--------------|-------------|----------------------|-------------|--------------------|-------------|--------------------|----------------------|
| 0.50                    | 8            | MC1050      | WHITE                | MC3050      | WHITE              | MC2050      | ORANGE             | 1000                 |
| 0.75                    | 8            | MC1075      | GREY                 | MC3075      | BLUE               | MC2075      | WHITE              | 1000                 |
| 1.00                    | 8            | MC1100      | RED                  | MC3100      | RED                | MC2100      | YELLOW             | 1000                 |
| 1.50                    | 8            | MC1150      | BLACK                | MC3150      | BLACK              | MC2150      | RED                | 1000                 |
| 2.50                    | 8            | MC1250      | BLUE                 | MC3250      | GREY               | MC2250      | BLUE               | 500                  |



## PNEUMATIC CRIMPERS



### FEATURES

HAND AND BENCH MODELS AVAILABLE  
CRIMPING RANGE 24-8 AWG  
OPERATES WITH PRESSURIZED AIR  
EASY TO USE AND PORTABLE

### PC 24 - 14 B

BENCH-CRIMPER  
TRAPEZOID CRIMPING  
SIDE AND FRONT INSERTION  
UNIVERSAL - DIE  
RANGE 24-14 AWG (0.25-2.50 mm<sup>2</sup>)

|           |                      |
|-----------|----------------------|
| LENGTH:   | 7.9 INCHES (200 MM)  |
| WEIGHT:   | 35.2 OUNCES (1000 G) |
| PRESSURE: | 58 PSI (4 BAR)       |

### PC 24 - 14 H

HAND-CRIMPER  
TRAPEZOID CRIMPING  
SIDE AND FRONT INSERTION  
UNIVERSAL - DIE  
RANGE 24-14 AWG (0.25-2.50 mm<sup>2</sup>)

|           |                      |
|-----------|----------------------|
| LENGTH:   | 7.9 INCHES (200 MM)  |
| WEIGHT:   | 35.2 OUNCES (1000 G) |
| PRESSURE: | 58 PSI (4 BAR)       |

### PC 12 - 8 B

BENCH-CRIMPER  
TRAPEZOID CRIMPING  
SIDE ENTRY  
RANGE 12-8 AWG (4-10 mm<sup>2</sup>)

|           |                     |
|-----------|---------------------|
| LENGTH:   | 7.9 INCHES (200 MM) |
| WEIGHT:   | 15.1 OUNCES (430 G) |
| PRESSURE: | 58 PSI (4 BAR)      |

### PC 12 - 8 H

HAND-CRIMPER  
TRAPEZOID CRIMPING  
SIDE ENTRY  
RANGE 12-8 AWG (4-10 mm<sup>2</sup>)

|           |                     |
|-----------|---------------------|
| LENGTH:   | 7.9 INCHES (200 MM) |
| WEIGHT:   | 15.1 OUNCES (430 G) |
| PRESSURE: | 58 PSI (4 BAR)      |

### ACCESSORY EQUIPMENT:

|        |                      |
|--------|----------------------|
| PC - 1 | BALANCER             |
| PC - 2 | MAGNETIC TOOL HOLDER |

### LC 100, AUTOMATIC WIRE CUTTER

#### FEATURES

CUTS 28 – 8 AWG WIRES  
WEIGHS ONLY 25 LBS.  
1 YEAR WARRANTY  
FULLY PROGRAMMABLE, LENGTH AND NUMBER OF CUTS

#### TECHNICAL DATA

|                       |                                         |
|-----------------------|-----------------------------------------|
| DIMENSIONS            | 7.6 x 11.8 x 8.9"                       |
| WEIGHT                | 24.3 POUNDS                             |
| CUTTING CAPACITY      |                                         |
| FINE WIRE             | 0.08 – 10 MM <sup>2</sup> , 28 – 8 AWG  |
| SINGLE WIRE           | 0.08 – 2.5 MM <sup>2</sup> , 28 – 8 AWG |
| MAX DIAMETER          | 8 MM                                    |
| FEED SPEED            | MAX 0.5 M/S, 20"/SECOND                 |
| UNIT OF MEASURE       | MM AND INCHES                           |
| INTERFACE             | RS232                                   |
| CROSS SECTION SETTING | AUTOMATIC                               |





## DIN RAIL

WE OFFER A COMPLETE LINE OF SLOTTED OR SOLID DIN RAIL – 35MM X 15MM, 35MM X 7.5MM) IN 1 OR 2 METER LENGTHS. DIN RAIL MOUNTS IN A VARIETY OF ENCLOSURES AND JUNCTION BOXES.

DIN RAIL SAVES SPACE SINCE IT ORGANIZES TERMINALS IN A SET PATTERN. DIN RAIL SAVES TIME SINCE MANY OTHER CONTROL COMPONENTS CAN BE MOUNTED ON THE SAME RAIL – NO COMPONENTS ARE DIRECT MOUNTED – ULTIMATELY SAVING OUR CUSTOMERS MONEY.

OUR DIN RAIL IS MADE OF STEEL AND ZINC PLATED FINISH, WHICH IS THE INDUSTRY STANDARD AND ALSO ROHS COMPLIANT. AS ALWAYS, OUR RAILS ARE NOT MARKED WITH A COMPANY NAME AND ARE CE APPROVED.



# DIN RAIL STEEL

## FEATURES

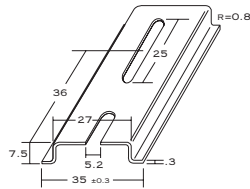
STEEL DESIGN  
ZINC PLATING  
2 METER LENGTH  
COMPETITIVE PRICING

INDUSTRY STANDARD MATERIALS  
CE APPROVED  
NO MARKINGS ON RAIL



## SLOTTED

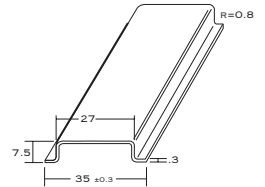
35 MM X 7.5 MM  
SLOTTED  
STANDARD PACK: 40



**TS3575SL**  
**TS3575SL1**

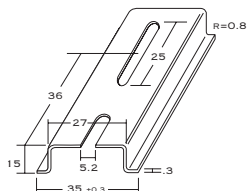
## SOLID

35 MM X 7.5 MM  
SOLID  
STANDARD PACK: 40



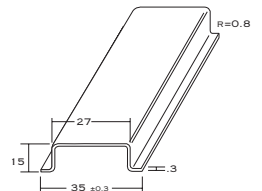
**TS3575SOL**

35 MM X 15 MM  
SLOTTED  
STANDARD PACK: 20



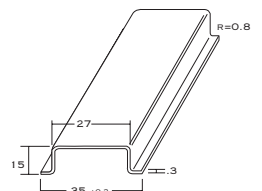
**TS3515SL**

35 MM X 15 MM  
SOLID  
STANDARD PACK: 20



**TS3515SOL**

35 MM X 15 MM  
SOLID  
STANDARD PACK: 20



**TS3515SOLH**

## DIN RAIL CROSS REFERENCE

| AMERICAN ELECTRICAL | TS3575SL       | TS3575SOL      | TS3515SL       | TS3515SOL      | TS3515SOLH     |
|---------------------|----------------|----------------|----------------|----------------|----------------|
| ENTRELEC            | 173220.05      | 174300.17      | 101598.26      | 168700.22      | 168500.12      |
| PHOENIX CONTACT     | 801733         | 801681         | 1201730        | 1201717        | —              |
| WAGO                | 210-112        | 210-113        | 210-197        | 210-114        | 210-118        |
| WEIDMULLER          | 51450          | 38340          | 23650          | 23640          | 49800          |
| WIELAND             | 98.300.10000.0 | 98.300.10000.0 | 98.300.10000.0 | 98.300.10000.0 | 98.300.10000.0 |



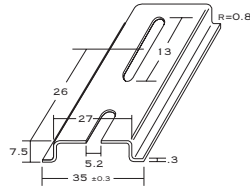
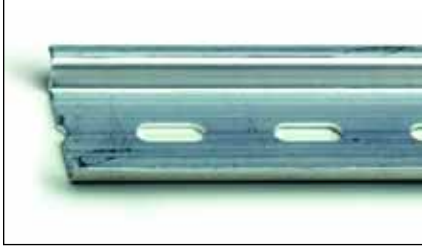
## DIN RAIL ALUMINUM

### FEATURES

LIGHTWEIGHT ALUMINUM  
1 METER LENGTH  
COMPETITIVE PRICING

STANDARD PACK OF 40  
NO MARKINGS ON RAIL

35 MM X 7.5 MM  
SLOTTED  
STANDARD PACK: 40



**TS3575SL1-A**

## DIN RAIL CUTTER

### TS 3 CUT

#### FEATURES

CUTS 35X15, 35X7.5 AND 15MM DIN RAIL  
NO DEBURRING NECESSARY. CLEAN CUTS  
LITTLE FORCE REQUIRED FOR OPERATION  
FAST, ACCURATE CUTS  
INTEGRATED 1 METER MEASURING STICK INCLUDED



#### TECHNICAL DATA

LENGTH STOP: MAX. 1000 MM  
DIMENSIONS: 1090 (L) X 150 (W) X 760 (D) MM  
43 (L) X 6 (W) X 30 (D) INCHES  
WEIGHT: 18 LBS, 8.3 KG



## DIN RAIL MOUNTED POWER SUPPLIES

AMERICAN ELECTRICAL HAS TWO LINES OF DIN RAIL POWER SUPPLIES TO CHOOSE FROM. ALL ARE 120VAC IN AND 24VDC OUT (OTHER VOLTAGE OUTPUTS MAY BE ORDERED, PLEASE CALL US). WE ALSO HAVE 3-PHASE POWER SUPPLIES UP TO 480VAC IN AND 24VDC OUT.

ALL POWER SUPPLIES ARE UL LISTED AND EMI/RFI APPROVED.





### 45 WATTS, 1.875 AMPS, 24VDC

#### FEATURES

UL508 LISTED  
INSTALLS EASILY ON DIN RAIL TS35 X 7.5 AND 15MM  
FIXED SWITCHING FREQUENCY AT 100KHZ  
LED POWER ON INDICATOR  
FREE AIR CONVECTION COOLING  
100% FULL LOAD BURN-IN TEST  
1 YEAR WARRANTY

#### TECHNICAL DATA

|                           |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| PART NUMBER               | <b>DR-45-24</b>                                                          |
| AC INPUT VOLTAGE RANGE    | 85 – 265VAC; 120-370VDC                                                  |
| DC ADJUSTMENT RANGE       | ±10% RATED OUTPUT VOLTAGE                                                |
| OVER LOAD PROTECTION      | 105% - 150% CONSTANT CURRENT LIMITING, AUTO RECOVERY                     |
| OVER VOLTAGE PROTECTION   | 115% - 135% RATED OUTPUT VOLTAGE                                         |
| SETUP, RISE, HOLD UP TIME | 800MS, 60MS, 50MS AT FULL LOAD AND 230VAC                                |
| WITHSTAND VOLTAGE         | I/P-O/P:3KVAC, I/P-FG:1.5KVAC, 1 MINUTE                                  |
| WORKING TEMPERATURE       | 0 - 45_C@100%, -10_C@80%, 50_C@80% LOAD                                  |
| SAFETY STANDARDS          | UL508, TUV EN60950 1 APPROVED                                            |
| EMC STANDARDS             | EN55022 CLASS B, EN61000-3-2,3<br>EN61000-6-2, EN61000-4-2,3,4,5,6,8,11, |
| ENV50204                  |                                                                          |
| CONNECTION                | I/P: 3 POLES, O/P: 4 POLES SCREW DIN TERMINAL                            |
| DIMENSIONS                | 78 X 93 X 67MM                                                           |



### 75 WATTS, 3.125 AMPS, 24VDC

#### FEATURES

UL508 LISTED  
INSTALLS EASILY ON DIN RAIL TS35 X 7.5 AND 15MM  
FIXED SWITCHING FREQUENCY AT 50KHZ  
LED POWER ON INDICATOR  
FREE AIR CONVECTION COOLING  
100% FULL LOAD BURN-IN TEST  
1 YEAR WARRANTY

#### TECHNICAL DATA

|                           |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| PART NUMBER               | <b>DR-75-24</b>                                                          |
| AC INPUT VOLTAGE RANGE    | 85 – 265VAC; 120-370VDC                                                  |
| DC ADJUSTMENT RANGE       | 12V: 12-14V, 24V: 24-28V, 48V: 48-53V                                    |
| OVER LOAD PROTECTION      | 105% - 150% CONSTANT CURRENT LIMITING, AUTO RECOVERY                     |
| OVER VOLTAGE PROTECTION   | 121% - 142% RATED OUTPUT VOLTAGE                                         |
| SETUP, RISE, HOLD UP TIME | 1000MS, 60MS, 50MS AT FULL LOAD AND 230VAC                               |
| WITHSTAND VOLTAGE         | I/P-O/P:3KVAC, I/P-FG:1.5KVAC, 1 MINUTE                                  |
| WORKING TEMPERATURE       | -10_C – 60_C                                                             |
| SAFETY STANDARDS          | UL508, TUV EN60950 1 APPROVED                                            |
| EMC STANDARDS             | EN55022 CLASS B, EN61000-3-2,3<br>EN61000-6-2, EN61000-4-2,3,4,5,6,8,11, |
| ENV50204                  |                                                                          |
| CONNECTION                | I/P: 3 POLES, O/P: 4 POLES SCREW DIN TERMINAL                            |
| DIMENSIONS                | 55.5 X 125.2 X 100MM                                                     |





## 120 WATTS, 5 AMPS, 24VDC

### FEATURES

AC INPUT SELECTED BY SWITCH  
 INSTALLS EASILY ON DIN RAIL TS35 X 7.5 AND 15MM  
 FIXED SWITCHING FREQUENCY AT 55KHZ  
 LED POWER ON INDICATOR  
 FREE AIR CONVECTION COOLING  
 100% FULL LOAD BURN-IN TEST  
 1 YEAR WARRANTY

### TECHNICAL DATA

|                           |                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------|
| PART NUMBER               | <b>DR-120-24</b>                                                                     |
| AC INPUT VOLTAGE RANGE    | 88 – 132VAC; 176 – 264VAC SELECTED BY SWITCH                                         |
| DC ADJUSTMENT RANGE       | 12V: 12-14V, 24V: 24-28V, 48V: 48-53V                                                |
| OVER LOAD PROTECTION      | 105% - 150% CONSTANT CURRENT LIMITING, AUTO RECOVERY                                 |
| OVER VOLTAGE PROTECTION   | 120% - 140% RATED OUTPUT VOLTAGE                                                     |
| SETUP, RISE, HOLD UP TIME | 500MS, 70MS, 30MS AT FULL LOAD AND 230VAC                                            |
| WITHSTAND VOLTAGE         | I/P-O/P:3KVAC, I/P-FG:1.5KVAC, 1 MINUTE                                              |
| WORKING TEMPERATURE       | -10_C – 60_C                                                                         |
| SAFETY STANDARDS          | UL508, UL60950-1, TUV EN60950 1 APPROVED                                             |
| EMC STANDARDS             | EN55022 CLASS B, EN61000-3-2,3<br>EN61000-6-2, EN61000-4-2,3,4,5,6,8,11,<br>ENV50204 |
| CONNECTION                | I/P: 3 POLES, O/P: 4 POLES SCREW DIN TERMINAL                                        |
| DIMENSIONS                | 65.5 X 125.2 X 100MM                                                                 |



## 240 WATTS, 10 AMPS, 24VDC

### FEATURES

- UNIVERSAL AC INPUT/FULL RANGE
- PF>0.98@115VAC, >0.95@230VAC
- INSTALLS EASILY ON DIN RAIL TS35 X 7.5 AND 15MM
- FIXED SWITCHING FREQUENCY AT 100KHZ
- LED POWER ON INDICATOR
- FREE AIR CONVECTION COOLING
- 100% FULL LOAD BURN-IN TEST
- 1 YEAR WARRANTY

### TECHNICAL DATA

|                           |                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------|
| PART NUMBER               | <b>DRP-240-24</b>                                                                    |
| AC INPUT VOLTAGE RANGE    | 85 – 264VAC; 120 – 370VDC                                                            |
| DC ADJUSTMENT RANGE       | 24V: 24-28V                                                                          |
| OVER LOAD PROTECTION      | 105% - 150% CONSTANT CURRENT LIMITING, AUTO RECOVERY                                 |
| OVER VOLTAGE PROTECTION   | 30 – 36V                                                                             |
| SETUP, RISE, HOLD UP TIME | 800MS, 40MS, 20MS AT FULL LOAD AND 230VAC                                            |
| WITHSTAND VOLTAGE         | I/P-O/P:3KVAC, I/P-FG:1.5KVAC, 1 MINUTE                                              |
| WORKING TEMPERATURE       | -10_C – 55_C@100%, 70_C@60% LOAD                                                     |
| SAFETY STANDARDS          | UL508, UL60950-1, TUV EN60950 1 APPROVED                                             |
| EMC STANDARDS             | EN55022 CLASS B, EN61000-3-2,3<br>EN61000-6-2, EN61000-4-2,3,4,5,6,8,11,<br>ENV50204 |
| CONNECTION                | I/P: 3 POLES, O/P: 4 POLES SCREW DIN TERMINAL                                        |
| DIMENSIONS                | 125.5 X 125.2 X 100MM                                                                |



### 240 WATTS THREE PHASE, 10 AMPS, 24VDC

#### FEATURES

INPUT 340-550VAC, 3 PHASE 4 WIRES  
HIGH EFFICIENCY AND LOW DISSIPATION  
INSTALLS EASILY ON DIN RAIL TS35 X 7.5 AND 15MM  
EN61000-6-2 INDUSTRIAL IMMUNITY LEVEL  
FREE AIR CONVECTION COOLING  
100% FULL LOAD BURN-IN TEST  
1 YEAR WARRANTY

#### TECHNICAL DATA

|                         |                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------|
| PART NUMBER             | <b>DRT-240-24</b>                                                                               |
| AC INPUT VOLTAGE RANGE  | 340 – 550VAC; 3 PHASE 4 WIRES<br>(DUAL OPERATION POSSIBLE)                                      |
| DC ADJUSTMENT RANGE     | 24V: 24-28V                                                                                     |
| OVER LOAD PROTECTION    | 105% - 150% CONSTANT CURRENT LIMITING,<br>AUTO RECOVERY                                         |
| OVER VOLTAGE PROTECTION | 30 – 36V                                                                                        |
| OVER TEMP. PROTECTION   | SHUT DOWN OUTPUT VOLTAGE, RECOVERS AUTO                                                         |
| WITHSTAND VOLTAGE       | I/P-O/P:3KVAC, I/P-FG:1.5KVAC, 1 MINUTE                                                         |
| WORKING TEMPERATURE     | -20_C – 70_C                                                                                    |
| SAFETY STANDARDS        | UL508, UL60950-1, TUV EN60950 1 APPROVED                                                        |
| EMC STANDARDS           | EN55022 CLASS B, EN61000-3-2,3, EN61204-3<br>EN61000-6-2, EN61000-4-2,3,4,5,6,8,11,<br>ENV50204 |
| CONNECTION              | I/P: 3 POLES, O/P: 4 POLES SCREW DIN TERMINAL                                                   |
| DIMENSIONS              | 125.5 X 125.2 X 100MM                                                                           |



### 480 WATTS THREE PHASE, 20 AMPS, 24VDC

#### FEATURES

INPUT 340-550VAC, 3 PHASE 4 WIRES  
HIGH EFFICIENCY UP TO 90%  
INSTALLS EASILY ON DIN RAIL TS35 X 7.5 AND 15MM  
EN61000-6-2 INDUSTRIAL IMMUNITY LEVEL  
FREE AIR CONVECTION COOLING  
100% FULL LOAD BURN-IN TEST  
1 YEAR WARRANTY

#### TECHNICAL DATA

|                         |                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------|
| PART NUMBER             | <b>DRT-480-24</b>                                                                               |
| AC INPUT VOLTAGE RANGE  | 340 – 550VAC; 3 PHASE 4 WIRES<br>(DUAL OPERATION POSSIBLE)                                      |
| DC ADJUSTMENT RANGE     | 24V: 24-28V                                                                                     |
| OVER LOAD PROTECTION    | 105% - 150% CONSTANT CURRENT LIMITING,<br>AUTO RECOVERY                                         |
| OVER VOLTAGE PROTECTION | 30 – 36V, AC RECYCLE TO RESTART                                                                 |
| OVER TEMP. PROTECTION   | SHUT DOWN OUTPUT VOLTAGE, RECOVERS AUTO                                                         |
| WITHSTAND VOLTAGE       | I/P-O/P:3KVAC, I/P-FG:1.5KVAC,<br>O/P-FG: 0.5KVAC, 1 MINUTE                                     |
| WORKING TEMPERATURE     | -20_C – 70_C                                                                                    |
| SAFETY STANDARDS        | UL508, UL60950-1, TUV EN60950 1 APPROVED                                                        |
| EMC STANDARDS           | EN55022 CLASS B, EN61000-3-2,3, EN61204-3<br>EN61000-6-2, EN61000-4-2,3,4,5,6,8,11,<br>ENV50204 |
| CONNECTION              | I/P: 3 POLES, O/P: 4 POLES SCREW DIN TERMINAL                                                   |
| DIMENSIONS              | 227 X 125.2 X 100MM                                                                             |



## FEATURES

|                                 |                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------|
| WIDE RANGE                      | COMPACT HOUSING<br>20A, 3PH ONLY 3.39 INCHES LONG                                                             |
| OUTPUT                          | HORIZONTAL MOUNTING UP TO 40A, 3 PHASE<br>24V / 1.25 TO 20A - SINGLE PHASE<br>24V / 10, 20, AND 40A - 3 PHASE |
| UNIVERSAL INPUT                 | 115 / 230 VAC<br>3 X 340 / 550 VAC                                                                            |
| LOAD SHARING                    | PARALLEL OPERATION<br>REDUNDANCY                                                                              |
| HIGH EFFICIENCY                 | TYPICAL 90%                                                                                                   |
| INCREASED OPERATING TEMPERATURE | 100% AT 140°F                                                                                                 |
| STATUS INDICATION               | POWER ON INDICATION<br>OVERLOAD STATUS LED                                                                    |
| TOUCH SAFE POWER ENTRY          | COVERED POWER ENTRY<br>CONVENIENT CUSTOMER INPUT TERMINALS                                                    |
| APPROVALS                       | UL / CSA AND EN 60950<br>EMC CERTIFIED                                                                        |



## 30 WATTS, 1.25 AMPS, 24VDC

### TECHNICAL DATA SLIMLINE

|                       |                     |
|-----------------------|---------------------|
| PART NUMBER           | <b>F2400125</b>     |
| AC INPUT VOLTAGE      | 115*/230            |
| PHASE                 | 1                   |
| DC OUTPUT VOLTAGE     | 24                  |
| OUTPUT CURRENT (AMPS) | 1.25                |
| POWER (WATTS)         | 30                  |
| DIMENSIONS (INCHES)   | 1.77 X 12.83 X 4.13 |



## 120 WATTS, 5 AMPS, 24VDC

### TECHNICAL DATA SLIMLINE

|                       |                   |
|-----------------------|-------------------|
| PART NUMBER           | <b>F240050S</b>   |
| AC INPUT VOLTAGE      | 115*/230          |
| PHASE                 | 1                 |
| DC OUTPUT VOLTAGE     | 24                |
| OUTPUT CURRENT (AMPS) | 5                 |
| POWER (WATTS)         | 120               |
| DIMENSIONS (INCHES)   | 2.76 X 5.2 X 5.47 |



## 240 WATTS, 10 AMPS, 24VDC

### TECHNICAL DATA SLIMLINE

|                       |                    |
|-----------------------|--------------------|
| PART NUMBER           | <b>F24010S</b>     |
| AC INPUT VOLTAGE      | 115*/230           |
| PHASE                 | 1                  |
| DC OUTPUT VOLTAGE     | 24                 |
| OUTPUT CURRENT (AMPS) | 10                 |
| POWER (WATTS)         | 240                |
| DIMENSIONS (INCHES)   | 2.76 X 5.81 X 6.46 |



\* INDICATES STANDARD VOLTAGE INPUTS



## DIN RAIL MOUNTED POWER SUPPLIES

### 240 WATTS, 10 AMPS, 24VDC



#### TECHNICAL DATA SLIMLINE 3 PHASE

|                       |                    |
|-----------------------|--------------------|
| PART NUMBER           | <b>F24010S-3</b>   |
| AC INPUT VOLTAGE      | 3x 340-550         |
| PHASE                 | 3                  |
| DC OUTPUT VOLTAGE     | 24                 |
| OUTPUT CURRENT (AMPS) | 10                 |
| POWER (WATTS)         | 240                |
| DIMENSIONS (INCHES)   | 3.18 X 6.02 x 6.29 |

### 480 WATTS, 20 AMPS, 24VDC



#### TECHNICAL DATA SLIMLINE 3 PHASE

|                       |                    |
|-----------------------|--------------------|
| PART NUMBER           | <b>F24020S-3</b>   |
| AC INPUT VOLTAGE      | 3x 340-550         |
| PHASE                 | 3                  |
| DC OUTPUT VOLTAGE     | 24                 |
| OUTPUT CURRENT (AMPS) | 20                 |
| POWER (WATTS)         | 480                |
| DIMENSIONS (INCHES)   | 3.99 X 8.94 x 6.81 |

### 60 WATTS, 2.5 AMPS, 24VDC



#### TECHNICAL DATA HORIZONTAL

|                       |                    |
|-----------------------|--------------------|
| PART NUMBER           | <b>F240025</b>     |
| AC INPUT VOLTAGE      | 115*/230           |
| PHASE                 | 1                  |
| DC OUTPUT VOLTAGE     | 24                 |
| OUTPUT CURRENT (AMPS) | 2.5                |
| POWER (WATTS)         | 60                 |
| DIMENSIONS (INCHES)   | 4.25 X 4.84 x 2.56 |

### 120 WATTS, 5 AMPS, 24VDC



#### TECHNICAL DATA HORIZONTAL

|                       |                    |
|-----------------------|--------------------|
| PART NUMBER           | <b>F240050</b>     |
| AC INPUT VOLTAGE      | 115*/230           |
| PHASE                 | 1                  |
| DC OUTPUT VOLTAGE     | 24                 |
| OUTPUT CURRENT (AMPS) | 5                  |
| POWER (WATTS)         | 120                |
| DIMENSIONS (INCHES)   | 5.79 X 4.84 x 3.39 |

\* INDICATES STANDARD VOLTAGE INPUTS



240 WATTS, 10 AMPS, 24VDC

## TECHNICAL DATA HORIZONTAL

|                       |                    |
|-----------------------|--------------------|
| PART NUMBER           | <b>F24010</b>      |
| AC INPUT VOLTAGE      | 115*/230           |
| PHASE                 | 1                  |
| DC OUTPUT VOLTAGE     | 24                 |
| OUTPUT CURRENT (AMPS) | 10                 |
| POWER (WATTS)         | 240                |
| DIMENSIONS (INCHES)   | 8.07 X 4.84 X 3.39 |



480 WATTS, 20 AMPS, 24VDC

## TECHNICAL DATA HORIZONTAL

|                       |                    |
|-----------------------|--------------------|
| PART NUMBER           | <b>F24020</b>      |
| AC INPUT VOLTAGE      | 195-265            |
| PHASE                 | 1                  |
| DC OUTPUT VOLTAGE     | 24                 |
| OUTPUT CURRENT (AMPS) | 20                 |
| POWER (WATTS)         | 480                |
| DIMENSIONS (INCHES)   | 9.45 X 6.02 X 3.39 |



480 WATTS, 20 AMPS, 24VDC

## TECHNICAL DATA HORIZONTAL 3 PHASE

|                       |                    |
|-----------------------|--------------------|
| PART NUMBER           | <b>F24020-3</b>    |
| AC INPUT VOLTAGE      | 3x 340-550         |
| PHASE                 | 3                  |
| DC OUTPUT VOLTAGE     | 24                 |
| OUTPUT CURRENT (AMPS) | 20                 |
| POWER (WATTS)         | 480                |
| DIMENSIONS (INCHES)   | 9.45 X 6.02 X 3.39 |



960 WATTS, 40 AMPS, 24VDC

## TECHNICAL DATA HORIZONTAL 3 PHASE

|                       |                    |
|-----------------------|--------------------|
| PART NUMBER           | <b>F24040-3</b>    |
| AC INPUT VOLTAGE      | 3x 340-550         |
| PHASE                 | 3                  |
| DC OUTPUT VOLTAGE     | 24                 |
| OUTPUT CURRENT (AMPS) | 40                 |
| POWER (WATTS)         | 960                |
| DIMENSIONS (INCHES)   | 11.5 X 7.28 X 5.12 |

\* INDICATES STANDARD VOLTAGE INPUTS



## DIN RAIL MOUNTED GFCI



### DIN 120 GFCI

#### FEATURES

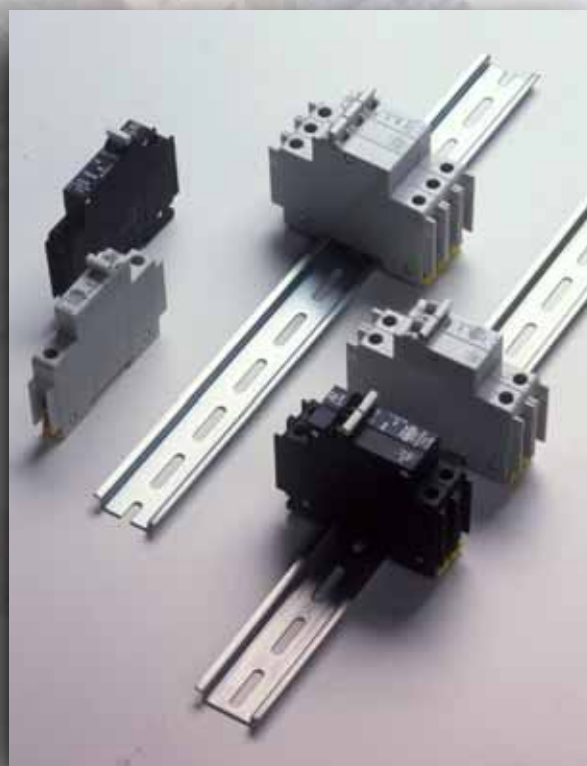
- DUAL 120V AC RECEPTACLE, DIN RAIL MOUNTED
- 3 FOOT, HOT/NEUTRAL/GROUND CABLE
- GREEN LED FOR POWER ON INDICATION
- CURRENT RATING, 20 A
- GROUND FAULT CIRCUIT PROTECTION WITH RESET
- DIN RAIL & DIRECT MOUNTABLE
- STANDARD RECEPTACLE SIZE
- ALL COMPONENTS UL APPROVED

## DIN RAIL MOUNTED CIRCUIT BREAKERS

AEI CARRIES A 13MM WIDE CIRCUIT BREAKER, THE THINNEST DIN RAIL MOUNTED ON THE MARKET. WE HAVE THREE TYPES OF BREAKERS. FOR AC CIRCUITRY WE HAVE UL 1077 AND UL 489 (UL LISTED) RATED BREAKERS. FOR DC CIRCUITS WE HAVE A UL 489 A RATED BREAKER.

POLE COUNT AND MAX. AMPERAGE IS GIVEN BELOW:

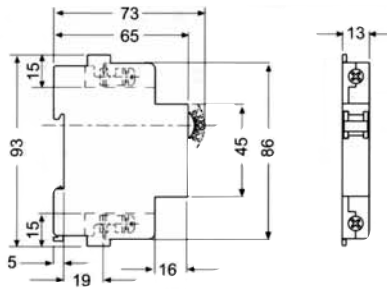
| CIRCUIT | TYPE     | MAX. POLES | MAX. AMPS |
|---------|----------|------------|-----------|
| AC      | UL 1077  | 3          | 50        |
| AC      | UL 489   | 2          | 25        |
| DC      | UL 489 A | 1          | 50        |





## DIN RAIL MOUNTED CIRCUIT BREAKERS

### UL 1077 RATED



#### FEATURES

UL 1077 APPROVED  
DIN RAIL MOUNTED  
COMPACT 13 MM WIDTH  
ONE, TWO & THREE POLE  
CURRENT RATING UP TO 50 A  
100% RATING CAPABILITY  
HYDRAULIC-MAGNETIC TECHNOLOGY  
TRIP CURVE 2 STANDARD

#### TECHNICAL DATA

|                       |                                              |
|-----------------------|----------------------------------------------|
| NUMBERS OF POLES      | 1, 2 & 3                                     |
| MAXIMUM VOLTAGE       | 277/480 50/60 Hz                             |
| MINIMUM AMP RATING    | 1 AMP                                        |
| MAXIMUM AMP RATING    | 50 AMP                                       |
| INTERRUPTING CAP.     | 5000A @ 120V<br>1000A @ 277V<br>1000A @ 480V |
| DIELECTRIC STRENGTH   | 1960V 50/60 Hz                               |
| INSULATION RESISTANCE | 100 MEGA OHM                                 |
| OPERATING TEMP. RANGE | -40°C TO +60°C                               |

#### PART NUMBERING SYSTEM

C A P

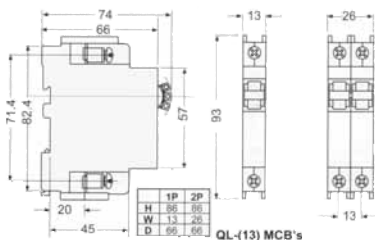
AMPERAGE:  
No. OF POLES: 1, 2 OR 3

E.G., 1 FOR 1 AMP, 15 FOR 15 AMP, ETC.

EXAMPLE: C10A1P = 10A SINGLE POLE CIRCUIT BREAKER



### UL 489 RATED



#### FEATURES

UL 489 APPROVED  
DIN RAIL MOUNTED  
COMPACT 13 MM WIDTH  
ONE & TWO POLE ONLY  
CURRENT RATING UP TO 25 A  
100% RATING CAPABILITY  
HYDRAULIC-MAGNETIC TECHNOLOGY  
TRIP CURVE KM STANDARD

#### TECHNICAL DATA

|                       |                   |
|-----------------------|-------------------|
| NUMBERS OF POLES      | 1 AND 2 POLE ONLY |
| MAXIMUM VOLTAGE       | 120/240V 50/60 Hz |
| MINIMUM AMP RATING    | 1 AMP             |
| MAXIMUM AMP RATING    | 25 AMP            |
| INTERRUPTING CAP.     | 10,000 A          |
| DIELECTRIC STRENGTH   | 1500V 50/60 Hz    |
| INSULATION RESISTANCE | 100 MEGA OHM      |
| OPERATING TEMP. RANGE | -40°C TO +60°C    |

#### PART NUMBERING SYSTEM

C A P-489

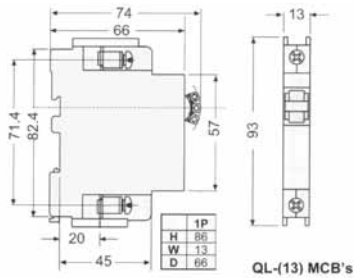
AMPERAGE:  
No. OF POLES: 1 OR 2

E.G., 1 FOR 1 AMP, 15 FOR 15 AMP, ETC.

EXAMPLE: C10A1P = 10A SINGLE POLE CIRCUIT BREAKER



## UL 489A RATED



### FEATURES

- UL 489A
- DIN RAIL MOUNTED
- COMPACT 13 MM WIDTH
- ONE POLE ONLY
- CURRENT RATING UP TO 50 A
- 100% RATING CAPABILITY
- HYDRAULIC-MAGNETIC TECHNOLOGY
- TRIP CURVE U2 STANDARD

### TECHNICAL DATA

|                       |                |
|-----------------------|----------------|
| NUMBERS OF POLES      | 1 ONLY         |
| MAXIMUM VOLTAGE       | 80 VDC         |
| MINIMUM AMP RATING    | 1 AMP          |
| MAXIMUM AMP RATING    | 50 AMP         |
| INTERRUPTING CAP.     | 10,000A        |
| DIELECTRIC STRENGTH   | 1500V 50/60 Hz |
| INSULATION RESISTANCE | 100 MEGA OHM   |
| OPERATING TEMP. RANGE | -40°C TO +60°C |

### PART NUMBERING SYSTEM

**C** **A1P-80VDC**



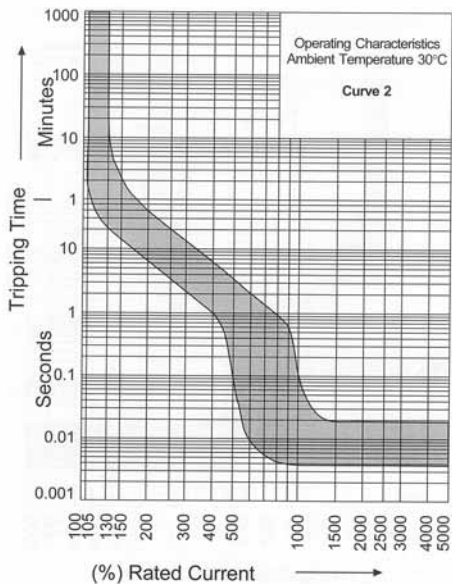
AMPERAGE:

E.G., 1 FOR 1 AMP, 15 FOR 15 AMP, ETC.

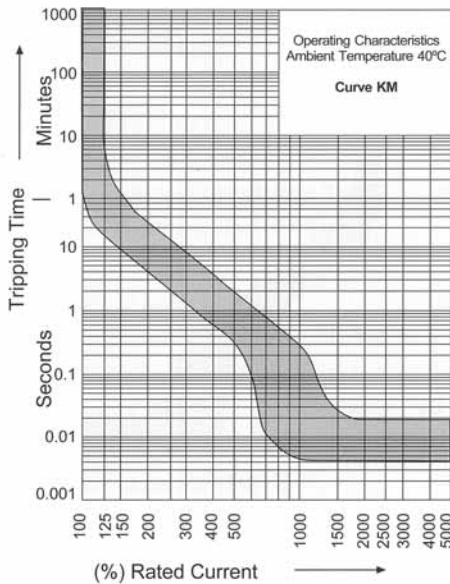
EXAMPLE: C10A1P-80VDC = 10A UL489A RATED CB

### TRIP CURVE

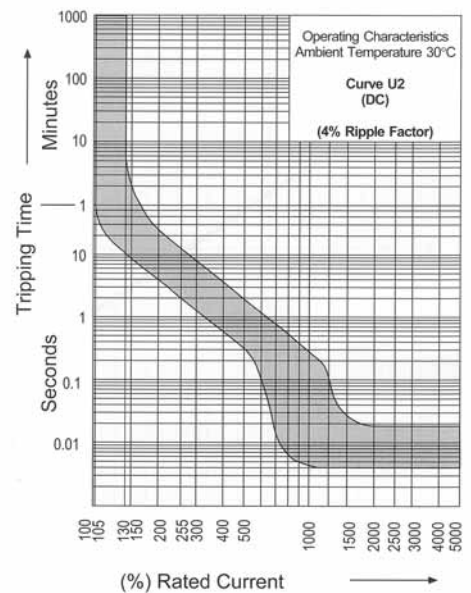
UL 1077 RATED  
CURVE 2



UL 489 RATED  
CURVE KM



UL 489A RATED  
CURVE U2



TRIP CURVE 3 AND TRIP CURVE 9 AVAILABLE AT [WWW.AMERICANELECTRIC.COM](http://WWW.AMERICANELECTRIC.COM).

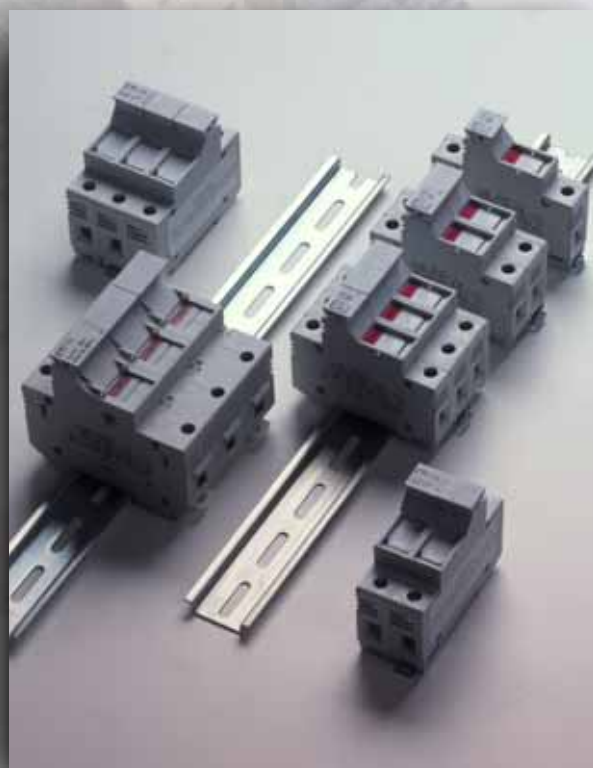


## DIN RAIL MOUNTED FUSE HOLDERS

APPLICATIONS REQUIRING CIRCUIT PROTECTION ARE OFTEN SPECIFIED WITH FUSES INSTEAD OF CIRCUIT BREAKERS. AEI OFFERS FUSE HOLDERS CAPABLE OF PROTECTING CIRCUITS UTILIZING THE FOUR MAIN STYLES OF FUSES:

- 5X20MM AND 5X25MM (SEE PAGES 27, 29, 32)
- 1 1/4"X1/4" (SEE PAGES 29, 30)
- 1 1/2"X1 3/32" (SEE NEXT PAGE)
- 2"X1/2"(14X51MM) (SEE NEXT PAGE)

ALL OF THE ABOVE ARE AVAILABLE IN STANDARD FUSE BLOCKS OR WITH "FUSE BLOWN" INDICATION (24VDC AND 110VAC CIRCUITS).



## DIN RAIL MOUNTED FUSE HOLDERS

FOR 1.5" X 13/32" FUSES

### ASK 4



#### FEATURES

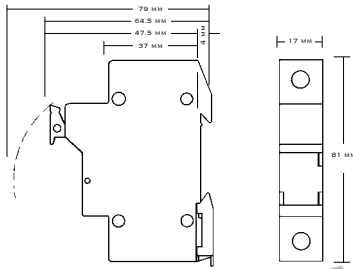
DIN RAIL MOUNTABLE  
BOTH INDICATING AND NON INDICATING AVAILABLE  
COMPACT AT 17MM WIDTH

#### TECHNICAL DATA

|                  |          |
|------------------|----------|
| NUMBERS OF POLES | 1, 2 & 3 |
| VOLTAGE          | 600      |
| AMPS             | 32 AMP   |
| WIRE SIZE AWG    | 26...6   |

#### PART NUMBERING SYSTEM

| NO. OF POLES | INDICATOR TYPE | PART NUMBER    |
|--------------|----------------|----------------|
| 1            | NON-INDICATING | <b>2541000</b> |
| 2            | NON-INDICATING | <b>2543000</b> |
| 3            | NON-INDICATING | <b>2544000</b> |
| 1            | WITH INDICATOR | <b>2541100</b> |
| 2            | WITH INDICATOR | <b>2543100</b> |
| 3            | WITH INDICATOR | <b>2544100</b> |



## DIN RAIL MOUNTED FUSE HOLDERS

FOR 14 X 51 MM FUSES

### ASK 6



#### FEATURES

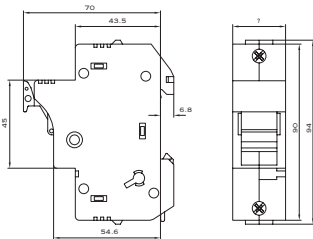
DIN RAIL MOUNTABLE  
BOTH INDICATING AND NON INDICATING AVAILABLE

#### TECHNICAL DATA

|                  |          |
|------------------|----------|
| NUMBERS OF POLES | 1, 2 & 3 |
| VOLTAGE          | 600      |
| AMPS             | 50 AMP   |
| WIRE SIZE AWG    | 26...6   |

#### PART NUMBERING SYSTEM

| NO. OF POLES | INDICATOR TYPE | PART NUMBER    |
|--------------|----------------|----------------|
| 1            | NON-INDICATING | <b>2561000</b> |
| 2            | NON-INDICATING | <b>2563000</b> |
| 3            | NON-INDICATING | <b>2564000</b> |
| 1            | WITH INDICATOR | <b>2561100</b> |
| 2            | WITH INDICATOR | <b>2563100</b> |
| 3            | WITH INDICATOR | <b>2564100</b> |



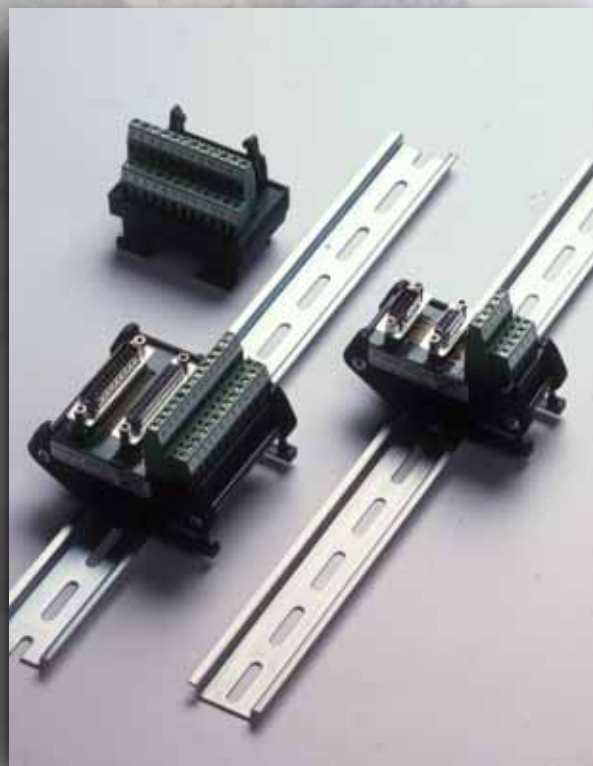
ASK 6





## DIN RAIL MOUNTED INTERFACE MODULES

THE AEI INTERFACE MODULES ARE AVAILABLE WITH D-SUBMINIATURE OR IDC CONNECTORS. THESE INTERFACE MODULES ALLOW THE USERS TO ATTACH FIELD WIRING AND “PLUG AND PLAY” THE INTERFACE MODULE TO THE CONTROLLER. OUR D-SUB MODULES COME WITH BOTH MALE AND FEMALE CONNECTORS AND IDC COME WITH MALE ONLY. WE ALSO OFFER TWO METER CABLES TO COMPLEMENT THE DESIGN.



## DIN RAIL MOUNTED INTERFACE MODULES

### D-SUB

MODULES ARE DESIGNED WITH MALE AND FEMALE CONNECTORS, 9, 15 OR 25 PIN OPTIONS.

#### FEATURES

MAXIMUM CURRENT: 1 A  
WIRE RANGE: 22 - 14 AWG  
OPERATING TEMPERATURE: -10°C TO 50°C



#### TECHNICAL DATA - D-SUB

| PART NUMBER        | DSUB-9-MF                              | DSUB-15-MF                              | DSUB-25-MF                              |
|--------------------|----------------------------------------|-----------------------------------------|-----------------------------------------|
| NUMBER OF CHANNELS | 9                                      | 15                                      | 25                                      |
| DIMENSIONS         | 1.53 x 2.48 x 2.5"<br>(39 x 63 x 93MM) | 1.93 x 2.48 x 2.58"<br>(49 x 63 x 93MM) | 2.87 x 2.48 x 2.58"<br>(73 x 63 x 93MM) |

#### CABLES - D-SUB (CONNECTORS ON BOTH ENDS)

| PART NUMBER       | DSUB-9-MF-CBL | DSUB-15-MF-CBL | DSUB-25-MF-CBL |
|-------------------|---------------|----------------|----------------|
| CABLE LENGTH      | 2 METERS      | 2 METERS       | 2 METERS       |
| INSULATION RATING | 300V 80°C     | 300V 80°C      | 300V 80°C      |
| CONDUCTOR SIZE    | #28 AWG       | #28 AWG        | #28 AWG        |

### IDC

#### FEATURES

MAXIMUM VOLTAGE: 600V  
MAXIMUM CURRENT: 2 A  
WIRE RANGE: 22 - 14 AWG

CONTACTS: COPPER ALLOY, TIN LEAD PLATING  
TIGHTENING TORQUE: 3.5 LB-IN (0.4NM)  
OPERATING TEMPERATURE: -10°C TO 50°C



#### TECHNICAL DATA - IDC

| PART NUMBER    | IDC-20-M                               | IDC-24-M                                | IDC-40-M                                |
|----------------|----------------------------------------|-----------------------------------------|-----------------------------------------|
| NUMBER OF PINS | 20                                     | 20                                      | 20                                      |
| DIMENSIONS     | 1.53 x 2.48 x 2.5"<br>(39 x 63 x 93MM) | 1.93 x 2.48 x 2.58"<br>(49 x 63 x 93MM) | 2.87 x 2.48 x 2.58"<br>(73 x 63 x 93MM) |

#### CABLES - IDC (CONNECTORS ON ONE END)

| PART NUMBER       | IDC-20-M-CBL | IDC-24-M-CBL |  |
|-------------------|--------------|--------------|--|
| CABLE LENGTH      | 2 METERS     | 2 METERS     |  |
| INSULATION RATING | 300V 80°C    | 300V 80°C    |  |
| CONDUCTOR SIZE    | #24 AWG      | #24 AWG      |  |



## DIN RAIL MOUNTED DISCONNECT SWITCHES

AEI HAS TWO SERIES OF DISCONNECT SWITCHES, RANGING FROM 16 A TO 125 A. ISOLATION OF CONTROL EQUIPMENT IS AN IMPORTANT DESIGN CONSIDERATION. OUR DISCONNECT SWITCHES CAN PROVIDE ISOLATION AND LOCK OUT POINTS FOR POWER SUPPLIES, TRANSFORMERS, SMALL MOTORS OR ANY OTHER TYPES OF CONTROLS.

ACCESSORIES, SUCH AS AUXILIARY CONTACTS ARE USED TO ELECTRICALLY INDICATE THE SWITCH POSITION. REMOTE OPERATION SHUTS OFF AND HANDLES ARE OFFERED FOR THOSE DESIGNS THAT ARE THRU-PANEL.



# DIN RAIL MOUNTED DISCONNECT SWITCHES

## SD1 SERIES

### FEATURES

16-40 AMPS

ALLOWS BREAKING AND DISCONNECTING ON  
LOAD OF EQUIPMENT ON LOW VOLTAGE  
AT NOMINAL CURRENT



| PART NUMBER                          |       |                 |                 |                 |
|--------------------------------------|-------|-----------------|-----------------|-----------------|
|                                      | BLACK | <b>19200-11</b> | <b>19201-11</b> | <b>19202-11</b> |
|                                      | RED   | <b>19210-11</b> | <b>19211-11</b> | <b>19212-11</b> |
| RATED CURRENT                        |       | 16 A            | 25 A            | 32 A            |
|                                      |       |                 |                 |                 |
| MAX VOLTAGE                          |       | 600 V           | 600 V           | 600 V           |
|                                      |       |                 |                 |                 |
| SHORT CIRCUIT RATING                 |       | 5 KA            | 5 KA            | 5 KA            |
|                                      |       |                 |                 |                 |
| MAXIMUM UL HORSEPOWER 3-PHASE (120V) |       | 3               | 3               | 3               |
|                                      |       |                 |                 |                 |
| WIRE RANGE                           |       | 16 - 6 AWG      | 16 - 6 AWG      | 16 - 6 AWG      |
|                                      |       |                 |                 |                 |
| TIGHTENING TORQUE                    |       | 2 NM            | 2 NM            | 2 NM            |
|                                      |       |                 |                 |                 |

### SD1 SERIES ACCESSORIES

| PART NUMBER      | DESCRIPTION                                |
|------------------|--------------------------------------------|
| <b>19440</b>     | CONNECTOR 6-8 POLE                         |
| <b>19400-11</b>  | DOOR INTERLOCK HANDLE BLACK                |
| <b>19401-11</b>  | EMERGENCY DOOR INTERLOCK HANDLE RED/YELLOW |
| <b>19535-100</b> | REMOTE OPERATOR SHAFT 100MM LENGTH         |
| <b>19535-200</b> | REMOTE OPERATOR SHAFT 200MM LENGTH         |
| <b>19535-300</b> | REMOTE OPERATOR SHAFT 300MM LENGTH         |
| <b>19414*</b>    | SD1 4TH POLE                               |
| <b>19423*</b>    | SD1 AUX CONTACT SPST                       |
| <b>19421*</b>    | SD1 GROUND POLE                            |
| <b>19419*</b>    | SD1 NEUTRAL POLE                           |

\*THESE MODULES INTEGRATE WITH THE DISCONNECT SWITCH. THEY ARE SEPARATE COMPONENTS THAT SCREW INTO THE MAIN SWITCHES FOR ADDITIONAL APPLICATIONS.



## DIN RAIL MOUNTED DISCONNECT SWITCHES

### SD-2 SERIES

#### FEATURES

63-125A

ALLOW BREAKING AND DISCONNECTING  
ON LOAD OF EQUIPMENT ON LOW VOLTAGE  
AT NOMINAL CURRENT



| PART NUMBER                          |       |                 |                 |                 |
|--------------------------------------|-------|-----------------|-----------------|-----------------|
|                                      | BLACK | <b>19205-11</b> | <b>19206-11</b> | <b>19207-11</b> |
|                                      | RED   | <b>19215-11</b> | <b>19216-11</b> | <b>19217-11</b> |
| RATED CURRENT                        |       |                 |                 |                 |
|                                      |       | 63 A            | 80 A            | 100 A           |
| MAX VOLTAGE                          |       |                 |                 |                 |
|                                      |       | 600 V           | 600 V           | 600 V           |
| SHORT CIRCUIT RATING                 |       |                 |                 |                 |
|                                      |       | 5 kA            | 5 kA            | 5 kA            |
| MAXIMUM UL HORSEPOWER 3-PHASE (120V) |       |                 |                 |                 |
|                                      |       | 5               | 5               | 5               |
| WIRE RANGE                           |       |                 |                 |                 |
|                                      |       | 6 - 1 AWG       | 6 - 1 AWG       | 6 - 1 AWG       |
| TIGHTENING TORQUE                    |       |                 |                 |                 |
|                                      |       | 3.5 NM          | 3.5 NM          | 3.5 NM          |

#### SD2 SERIES ACCESSORIES

| PART NUMBER      | DESCRIPTION                                |
|------------------|--------------------------------------------|
| <b>19440</b>     | CONNECTOR 6-8 POLE                         |
| <b>19400-11</b>  | DOOR INTERLOCK HANDLE BLACK                |
| <b>19401-11</b>  | EMERGENCY DOOR INTERLOCK HANDLE RED/YELLOW |
| <b>19535-100</b> | REMOTE OPERATOR SHAFT 100MM LENGTH         |
| <b>19535-200</b> | REMOTE OPERATOR SHAFT 200MM LENGTH         |
| <b>19535-300</b> | REMOTE OPERATOR SHAFT 300MM LENGTH         |
| <b>19418*</b>    | SD2 4TH POLE                               |
| <b>19429*</b>    | SD2 AUX CONTACT SPST                       |
| <b>19422*</b>    | SD2 GROUND POLE                            |
| <b>19420*</b>    | SD2 NEUTRAL POLE                           |

\*THESE MODULES INTEGRATE WITH THE DISCONNECT SWITCH. THEY ARE SEPARATE COMPONENTS THAT SCREW INTO THE MAIN SWITCHES FOR ADDITIONAL APPLICATIONS.

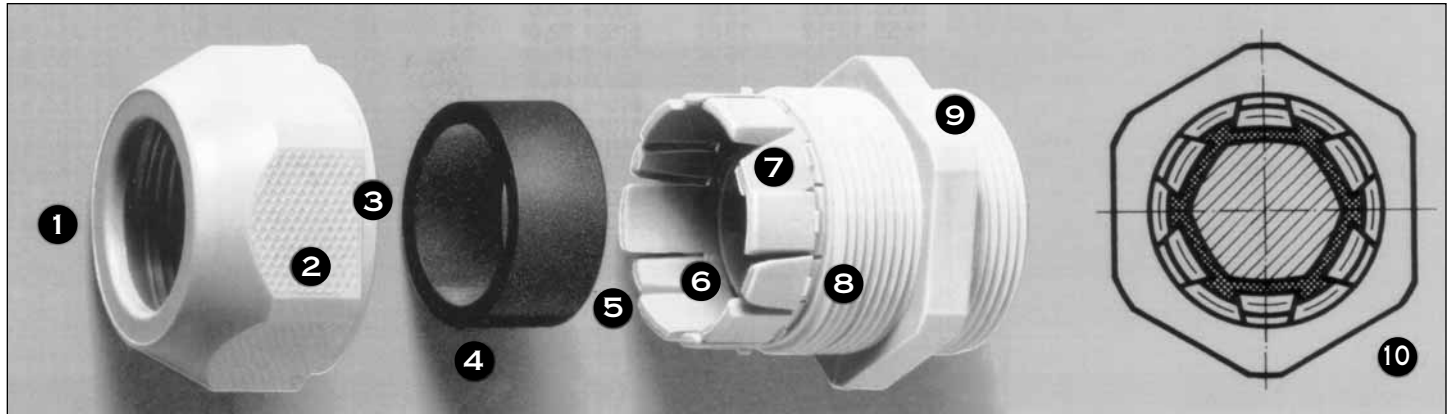
## CABLE GRIPS

CABLE GRIPS SECURE CABLES TO CONTROL CABINETS OR JUNCTION BOXES – PROVIDING STRAIN RELIEF AND PROTECTION FROM THE ELEMENTS. THEY ARE MADE OF METAL (NICKEL PLATED BRASS) OR PLASTIC (NYLON). ADVANTAGES EXIST FOR BOTH TYPES OF CABLE GRIP WITH THE NYLON VERSIONS BECOMING MORE POPULAR SINCE THEY CAN PROVIDE THE SAME LEVEL OF PROTECTION AGAINST DUST, DEBRIS AND WATER AS THE METALLIC VERSIONS – FOR LESS COST AND WEIGHT. CABLE GRIPS ARE SPECIFIED FIRST BY THE CABLE DIAMETER AND SECOND BY THREAD TYPE.

CABLE GRIPS ARE AVAILABLE IN THREE DIFFERENT THREAD TYPES, PG (PANZER GEWINDE, A GERMAN SPECIFIED THREAD WIDELY USED IN EUROPE), METRIC AND NPT (NATIONAL PIPE THREAD – USED IN USA). THIS IS USEFUL SINCE MOST SPECIFIERS THREAD THE CABINET HOLES SO THAT THE CABLE GRIP CAN BE SCREWED INTO IT FOR A MORE SECURE FIT. OTHERS SIMPLY KNOCKOUT A HOLE AND PLACE THE CABLE GRIP INSIDE IT.

OUR CABLE GRIPS ARE APPROVED BY UL AND LLOYDS OF LONDON AND ARE RATED IP 68, THE HIGHEST INGRESS PROTECTION AVAILABLE. INGRESS PROTECTION CONSISTS OF TWO NUMBERS – THE FIRST BETWEEN 0 AND 6, INDICATING THE RESISTANCE TO PARTICLES AND THE SECOND BETWEEN 0 AND 8, INDICATING RESISTANCE TO WATER. PLEASE SEE OUR CHART ON PAGE 84 EXPLAINING THE IP SYSTEM.





### MAIN FEATURES: CABLE GRIPS

- 1** **WIDER DOMED NUT WHICH CAN NOT BE OVER-TIGHTENED.**  
THE WIDE DOME DESIGN ALLOWS SPACE FOR THE NEOPRENE SEAL TO FORM A TIGHT GRIP ON THE CABLE, FORMING AN IP68 BARRIER. (PLEASE REFER TO INGRESS PROTECTION [IP] RATINGS ON THE BACK PAGE.)
- 2** **GENEROUS DEEP FLATS**  
THE DEEP FLATS ALLOW ENOUGH ROOM FOR THE PROPER WRENCH TO TIGHTEN OR LOOSEN THE CABLE GRIP WITHOUT THE WRENCH COMING OFF.
- 3** **SPACER**  
A SMALL SPACER EXISTS BETWEEN THE DOMED NUT AND THE LOCKING COLLETT, PROVIDING AN ADDITIONAL SEAL WHEN FULLY TIGHTENED.
- 4** **NEOPRENE RUBBER SEAL**  
THIS SEAL GRIPS AROUND THE CABLE TO FORM THE IP68 BARRIER WHEN PROPERLY TIGHTENED.
- 5** **WEBS ARE STAGGERED FOR BETTER GRIP**  
WEBS ARE DESIGNED IN AN ALTERNATING GEOMETRY WHICH ENHANCES GRIPPING CAPABILITY.
- 6** **STAGGERED WEBS**  
THE WEB DESIGN IS STAGGERED TO ALLOW FOR SEAL CONFORMITY AROUND THE CABLE TO MAXIMIZE THE PULL OUT RESISTANCE AND PROTECTION AGAINST THE ELEMENTS.
- 7** **SPRUNG WEBS**  
THE WEBS ARE DESIGNED SO THAT THEY WILL SPRING BACK TO THEIR ORIGINAL OPEN POSITION MAKING INSTALLATION EASY WHILE MAINTAINING THE SEAL QUALITY.
- 8** **RETENTION SPRINGS FOR DOMED NUT**  
THE 'TIGHT SEAL' DESIGN ALLOWS THE DOMED NUT TO LOCK WITH THE COLLETT BEFORE ANY THREADS ARE ENGAGED. THIS GUARDS AGAINST MISTHEADS AS WELL AS AIDS IN THE INSTALLATION PROCESS.
- 9** **SEALING LIP**  
THE COLLETT DESIGN INCORPORATES A SEALING LIP WHICH PROVIDES FOR A POSITIVE SEAL AGAINST THE ENCLOSURE.
- 10** **ANTI-TWIST CABLE LOCKING COLLETT**  
THE ENTIRE DESIGN OF THE 'TIGHT SEAL' PRODUCT LINE INSURES THAT CABLES WILL NOT TWIST OR TURN ONCE LOCKED DOWN.

### TECHNICAL DATA

#### MATERIAL:

POLYAMIDE PA 6, SELF-EXTINGUISHING,  
HALOGEN-FREE

#### SEAL:

NEOPRENE, OIL AND PETROLEUM RESISTANT

#### OPERATING TEMPERATURE:

STATIC: -40°C TO 100°C, SHORT-TERM 120°C  
DYNAMIC: -30°C TO 80°C, SHORT-TERM 100°C

WEATHER RESISTANCE GOOD

#### STRAIN RELIEF:

SMOOTH ACTION

#### SAFETY CLASS:

IP68, WATERPROOF (5 BAR)

#### PATENTS:

EUROPE, USA, JAPAN

#### VDE TEST REPORT:

12 796-9000-4001/A 2 J.

UL TEST (UNDERWRITERS LABORATORIES INC.)

LLOYD'S REGISTER OF SHIPPING CERTIFICATE

GERMANISCHE LLOYD CERTIFICATE

## CABLE GRIPS

### KNOCKOUT HOLE REFERENCE CHART

| PG   | MM   | INCHES | METRIC | MM | INCHES |
|------|------|--------|--------|----|--------|
| 7    | 12.5 | 0.492  | 12     | 12 | 0.472  |
| 9    | 15.2 | 0.598  | 16     | 16 | 0.63   |
| 11   | 18.6 | 0.732  | 20     | 20 | 0.787  |
| 13.5 | 20.4 | 0.803  | 25     | 25 | 0.984  |
| 16   | 22.5 | 0.886  | 32     | 32 | 1.26   |
| 21   | 28.3 | 1.114  | 40     | 40 | 1.575  |
| 29   | 37   | 1.457  | 50     | 50 | 1.969  |
| 36   | 47   | 1.85   | 63     | 63 | 2.48   |
| 42   | 54   | 2.126  |        |    |        |
| 48   | 59.3 | 2.338  |        |    |        |





# INGRESS PROTECTION (IP) RATINGS

## LIST OF PROTECTION CLASSES

### IP PROTECTION CLASSES TO DIN 40 050 SHEET 1

UP TO 1000 VAC AND 1500 VDC (UTE STANDARD C 200 10)

## IP RATINGS CONSIST OF A TWO DIGIT NUMBER EXPLAINED BELOW:

THE TWO DIGITS CORRESPOND TO THE DESCRIPTION BY DIN 40 050 SHEET 1, IEC 144 AND 525 AS WELL AS UTE C 200 10.

### 1ST DIGIT DEGREE OF PROTECTION AGAINST TOUCHING AND FOREIGN MATTER

#### IP SPECIFICATIONS

- 0** NO PROTECTION.
- 1** PROTECTION AGAINST PENETRATION BY SOLID FOREIGN MATTERS LARGER THAN 50 MM (ACCIDENTAL TOUCHING BY HAND).
- 2** PROTECTION AGAINST PENETRATION BY SOLID FOREIGN MATTERS LARGER THAN 12 MM (TOUCHING WITH FINGERS).
- 3** PROTECTION AGAINST PENETRATION BY SOLID FOREIGN MATTERS LARGER THAN 2.5 MM (TOUCHING WITH TOOLS, WIRES LARGER THAN 2.5 MM).
- 4** PROTECTION AGAINST SOLID FOREIGN MATTERS LARGER THAN 1 MM (TOUCHING WITH TOOLS, WIRES LARGER THAN 1 MM).
- 5** COMPLETE PROTECTION FROM BEING TOUCHED. PROTECTION FROM HARMFUL DUST DEPOSITS - DUST PENETRATION IS NOT COMPLETELY PREVENTED.
- 6** COMPLETE PROTECTION FROM BEING TOUCHED. PROTECTION AGAINST PENETRATION BY DUST.

### 2ND DIGIT DEGREE OF PROTECTION AGAINST WATER

#### IP SPECIFICATIONS

- 0** NO PROTECTION.
- 1** PROTECTION AGAINST VERTICALLY DRIPPING WATER.
- 2** PROTECTION AGAINST DRIP WATER FALLING AT AN ANGLE OF UP TO 15 DEGREES.
- 3** PROTECTION AGAINST SPRAY WATER FALLING AT AN ANGLE OF UP TO 60 DEGREES.
- 4** PROTECTION AGAINST SPRAY WATER FROM ALL DIRECTIONS.
- 5** PROTECTION AGAINST WATER JETS FROM ALL DIRECTIONS
- 6** PROTECTION AGAINST TEMPORARY FLOODING, E.G., BY ROUGH SEA.
- 7** PROTECTION WHEN SUBMERSED IN WATER AT SPECIFIED PRESSURE AND UNSPECIFIED DURATION.
- 8** PROTECTION WHEN SUBMERSED IN WATER AT ELEVATED PRESSURE AND UNSPECIFIED TIME.

## USE AND APPLICATION OF NYLON CABLE GRIPS

1. THE USE OF SYNTHETIC - CABLE GRIPS IS ALMOST UNLIMITED WITHIN THE ELECTRICAL AND ELECTRONICS INDUSTRY. INSTALLATIONS WHERE CABLES MUST BE LED SAFELY THROUGH A WALL OF AN ENCLOSURE WILL BE SPECIFIED WITH CABLE GRIPS. SYNTHETIC CABLE GRIPS ARE SPECIFIED TO:

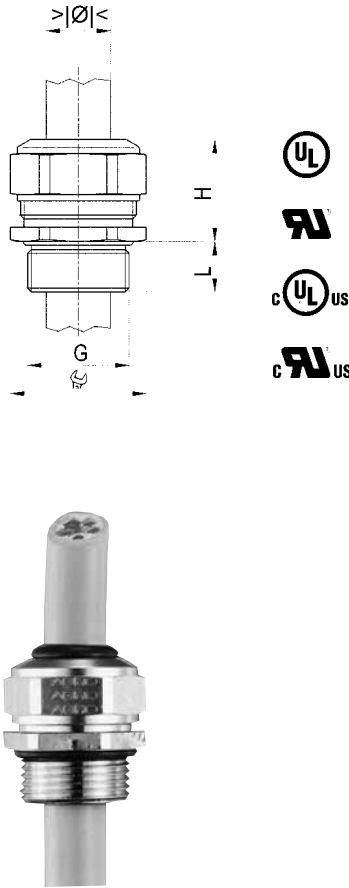
- **SECURE THE CABLE** TO THE ENCLOSURE'S WALL TO PROVIDE EXCELLENT PULL-OUT RESISTANCE.
- **SEAL AND PROTECT** THE INSIDE OF THE ENCLOSURE FROM THE UNWANTED AFFECTS OF THE ENVIRONMENT. THESE CONTAMINANTS MAY BE WATER, GAS, CHEMICALS VAPORS, OR FUMES.
- **REDUCE MATERIAL COST** DUE TO USE OF LIGHTER, LESS EXPENSIVE MATERIALS, AS WELL AS, ELIMINATING THE NEED FOR RUNNING CONDUIT.

2. SOME OF THE TYPICAL APPLICATIONS USING CABLE GRIPS ARE:

- MACHINERY
- PROCESS EQUIPMENT ENGINEERING
- APPARATUS AND APPLIANCE CONSTRUCTION
- AIRCRAFT AND AUTOMOTIVE ENGINEERING
- LOCOMOTIVE ENGINEERING
- ELEVATOR ENGINEERING
- PLANT ENGINEERING
- CHEMICAL AND PHARMACEUTICAL INDUSTRIES
- REFINERIES
- NUCLEAR RESEARCH INSTITUTIONS
- PROCESS AUTOMATION AND PROCESS ENGINEERING
- INDOOR AND OUTDOOR ELECTRICAL INSTALLATIONS
- SWITCHGEAR AND DISTRIBUTION CONSTRUCTION
- EQUIPMENT FOR MILITARY PURPOSES
- MUNICIPAL AND UTILITY TYPE APPLICATIONS, SUCH AS POWER, ELECTRICITY AND GAS WORKS

# CABLE GRIPS NICKEL-PLATED BRASS

THREAD: METRIC



MATERIAL : NICKEL-PLATED BRASS  
 SEAL: TPE  
 STRAIN RELIEF: ACC. TO EN 50262, VERSION A  
 TEMP. RANGE: -40°/+100°C  
 PROTECTION CLASS: IP 68

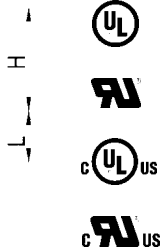
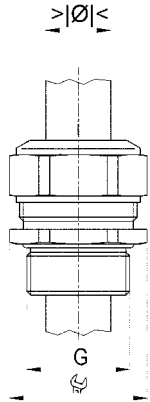
| PART NUMBER                                                                                   | SIZE                  | CABLE DIAM. MM | WRENCH SIZE | H MM | L MM | STD. PKG. SIZE |
|-----------------------------------------------------------------------------------------------|-----------------------|----------------|-------------|------|------|----------------|
| SHORT, ONE-PIECE SEALING INSERT<br>LONG ENTRY THREAD METRIC<br>(NOT OVERALL LENGTH INSULATED) |                       |                |             |      |      |                |
| 1100.06.025                                                                                   | M 6x1.0 <sup>1</sup>  | 2.0-2.5        | 8           | 12   | 8    | 50             |
| 1100.06.030                                                                                   | M 6x1.0 <sup>1</sup>  | 2.5-3.0        | 8           | 12   | 8    | 50             |
| 1100.06.035                                                                                   | M 6x1.0 <sup>1</sup>  | 3.0-3.5        | 8           | 12   | 8    | 50             |
| 1100.08.035                                                                                   | M 8x1.25 <sup>1</sup> | 2.5-3.5        | 11          | 14   | 10   | 50             |
| 1100.08.050                                                                                   | M 8x1.25 <sup>1</sup> | 3.5-5.0        | 11          | 14   | 10   | 50             |
| 1100.10.040                                                                                   | M10x1.5 <sup>1</sup>  | 3.0-4.0        | 13          | 15   | 10   | 50             |
| 1100.10.060                                                                                   | M10x1.5               | 4.0-6.0        | 13          | 15   | 10   | 50             |
| 1100.12.050                                                                                   | M12x1.5               | 3.5-5.0        | 15          | 17   | 10   | 50             |
| 1100.12.065                                                                                   | M12x1.5               | 5.0-6.5        | 15          | 17   | 10   | 50             |
| 1100.12.080                                                                                   | M12x1.5               | 6.5-8.0        | 15          | 17   | 10   | 50             |
| 1100.17.045                                                                                   | M16x1.5               | 3.5-4.5        | 18          | 20   | 10   | 50             |
| 1100.17.060                                                                                   | M16x1.5               | 4.5-6.0        | 18          | 20   | 10   | 50             |
| 1100.17.080                                                                                   | M16x1.5               | 6.0-8.0        | 18          | 20   | 10   | 50             |
| 1100.17.105                                                                                   | M16x1.5               | 8.0-10.5       | 18          | 22   | 10   | 50             |
| 1100.20.080                                                                                   | M20x1.5               | 6.0-8.0        | 24          | 21   | 10   | 50             |
| 1100.20.110                                                                                   | M20x1.5               | 8.0-11.0       | 24          | 21   | 10   | 50             |
| 1100.20.150                                                                                   | M20x1.5               | 11.0-15.0      | 24          | 23   | 10   | 50             |
| 1100.25.125                                                                                   | M25x1.5               | 9.5-12.5       | 30          | 25   | 11   | 25             |
| 1100.25.160                                                                                   | M25x1.5               | 12.5-16.0      | 30          | 25   | 11   | 25             |
| 1100.25.205                                                                                   | M25x1.5               | 16.0-20.5      | 30          | 28   | 11   | 25             |
| 1100.32.170                                                                                   | M32x1.5               | 14.0-17.0      | 36          | 28   | 13   | 25             |
| 1100.32.210                                                                                   | M32x1.5               | 17.0-21.0      | 36          | 28   | 13   | 25             |
| 1100.32.255                                                                                   | M32x1.5               | 21.0-25.5      | 36          | 28   | 13   | 25             |
| 1100.40.240                                                                                   | M40x1.5               | 20.0-24.0      | 46          | 31   | 13   | 10             |
| 1100.40.285                                                                                   | M40x1.5               | 24.0-28.5      | 46          | 31   | 13   | 10             |
| 1100.40.330                                                                                   | M40x1.5               | 28.5-33.0      | 46          | 31   | 13   | 10             |
| 1100.50.330                                                                                   | M50x1.5               | 29.0-33.0      | 55          | 34   | 14   | 10             |
| 1100.50.370                                                                                   | M50x1.5               | 33.0-37.0      | 55          | 34   | 14   | 10             |
| 1100.50.420                                                                                   | M50x1.5               | 37.0-42.0      | 55          | 34   | 14   | 10             |
| 1100.63.400                                                                                   | M63x1.5               | 35.0-40.0      | 70          | 37   | 14   | 5              |
| 1100.63.460                                                                                   | M63x1.5               | 40.0-46.0      | 70          | 37   | 14   | 5              |
| 1100.63.520                                                                                   | M63x1.5               | 46.0-52.0      | 70          | 37   | 14   | 5              |
| 1100.75.500                                                                                   | M75x1.5               | 45.0-50.0      | 80          | 38   | 15   | 1              |
| 1100.75.560                                                                                   | M75x1.5               | 50.0-56.0      | 80          | 38   | 15   | 1              |
| 1100.75.630                                                                                   | M75x1.5               | 56.0-63.0      | 80          | 38   | 15   | 1              |

<sup>1</sup> METRIC COARSE PITCH THREAD



## CABLE GRIPS NICKEL-PLATED BRASS

THREAD: PG



MATERIAL : NICKEL-PLATED BRASS  
SEAL: TPE  
TEMP. RANGE: -40°/-100°C  
PROTECTION CLASS: IP 68

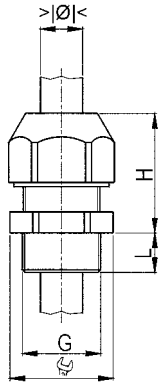
| PART NUMBER                                                                           | SIZE  | CABLE DIAM. MM | WRENCH SIZE | H MM | L MM | STD. PKG. SIZE |
|---------------------------------------------------------------------------------------|-------|----------------|-------------|------|------|----------------|
| LONG, ONE-PIECE SEALING INSERT<br>SHORT ENTRY THREAD PG<br>(OVERALL LENGTH INSULATED) |       |                |             |      |      |                |
| 1100.07.050                                                                           | PG 7  | 3.5-5.0        | 15          | 17   | 10   | 50             |
| 1100.07.065                                                                           | PG 7  | 5.0-6.5        | 15          | 17   | 10   | 50             |
| 1100.07.080                                                                           | PG 7  | 6.5-8.0        | 15          | 17   | 10   | 50             |
| 1100.09.045                                                                           | PG 9  | 3.5-4.5        | 18          | 20   | 10   | 50             |
| 1100.09.060                                                                           | PG 9  | 4.5-6.0        | 18          | 20   | 10   | 50             |
| 1100.09.080                                                                           | PG 9  | 6.0-8.0        | 18          | 20   | 10   | 50             |
| 1100.09.105                                                                           | PG 9  | 8.0-10.5       | 18          | 22   | 10   | 50             |
| 1100.11.055                                                                           | PG 11 | 4.0-5.5        | 21          | 21   | 10   | 50             |
| 1100.11.085                                                                           | PG 11 | 5.5-8.5        | 21          | 21   | 10   | 50             |
| 1100.11.120                                                                           | PG 11 | 8.5-12.0       | 21          | 21   | 10   | 50             |
| 1100.13.080                                                                           | PG 13 | 6.0-8.0        | 24          | 21   | 10   | 50             |
| 1100.13.110                                                                           | PG 13 | 8.0-11.0       | 24          | 21   | 10   | 50             |
| 1100.13.150                                                                           | PG 13 | 11.0-15.0      | 24          | 23   | 10   | 50             |
| 1100.16.080                                                                           | PG 16 | 6.0-8.0        | 24          | 23   | 10   | 50             |
| 1100.16.110                                                                           | PG 16 | 8.0-11.0       | 24          | 23   | 10   | 50             |
| 1100.16.150                                                                           | PG 16 | 11.0-15.0      | 24          | 23   | 10   | 50             |
| 1100.21.125                                                                           | PG 21 | 9.5-12.5       | 30          | 28   | 12   | 25             |
| 1100.21.160                                                                           | PG 21 | 12.5-16.0      | 30          | 28   | 12   | 25             |
| 1100.21.205                                                                           | PG 21 | 16.0-20.5      | 30          | 28   | 12   | 25             |
| 1100.29.190                                                                           | PG 29 | 16.0-19.0      | 38          | 28   | 12   | 25             |
| 1100.29.230                                                                           | PG 29 | 19.0-23.0      | 38          | 28   | 12   | 25             |
| 1100.29.275                                                                           | PG 29 | 23.0-27.5      | 38          | 28   | 12   | 25             |
| 1100.36.260                                                                           | PG 36 | 21.5-26.0      | 50          | 32   | 15   | 10             |
| 1100.36.305                                                                           | PG 36 | 26.0-30.5      | 50          | 32   | 15   | 10             |
| 1100.36.350                                                                           | PG 36 | 30.5-35.0      | 50          | 32   | 15   | 10             |
| 1100.42.330                                                                           | PG 42 | 29.0-33.0      | 55          | 34   | 15   | 10             |
| 1100.42.370                                                                           | PG 42 | 33.0-37.0      | 55          | 34   | 15   | 10             |
| 1100.42.420                                                                           | PG 42 | 37.0-42.0      | 55          | 34   | 15   | 10             |
| 1100.48.370                                                                           | PG 48 | 32.0-37.0      | 65          | 37   | 15   | 10             |
| 1100.48.430                                                                           | PG 48 | 37.0-43.0      | 65          | 37   | 15   | 10             |
| 1100.48.490                                                                           | PG 48 | 43.0-49.0      | 65          | 37   | 15   | 10             |

## SYNTHETIC CABLE GRIPS

WITH LAMELLAR TECHNOLOGY

SYNTEC®

THREAD: METRIC, NPT



MATERIAL: POLYAMIDE PA6  
 SEAL: CR (NEOPRENE)  
 STRAIN RELIEF: ACC. TO EN 50262, VERSION A  
 TEMP. RANGE: -30°/+80°C  
 PROTECTION CLASS: IP 68

| PART NUMBER | SIZE | CABLE DIAM. MM | WRENCH SIZE | H MM | L MM | COLOR | STD. PKG. SIZE |
|-------------|------|----------------|-------------|------|------|-------|----------------|
|-------------|------|----------------|-------------|------|------|-------|----------------|

SHORT ENTRY THREAD METRIC

|            |         |           |    |    |    |      |     |
|------------|---------|-----------|----|----|----|------|-----|
| 1555.12.06 | M12x1.5 | 2.5-6.5   | 15 | 21 | 6  | GREY | 100 |
| 1555.17.08 | M16x1.5 | 4.0-8.0   | 19 | 23 | 6  | GREY | 50  |
| 1555.20.07 | M20x1.5 | 3.0-7.0   | 24 | 26 | 8  | GREY | 50  |
| 1555.20.12 | M20x1.5 | 5.5-12.0  | 24 | 26 | 8  | GREY | 50  |
| 1555.25.14 | M25x1.5 | 8.0-14.0  | 33 | 35 | 8  | GREY | 25  |
| 1555.25.18 | M25x1.5 | 11.0-18.0 | 33 | 35 | 8  | GREY | 25  |
| 1555.32.25 | M32x1.5 | 17.0-25.0 | 42 | 36 | 10 | GREY | 20  |

|            |         |           |    |    |    |       |     |
|------------|---------|-----------|----|----|----|-------|-----|
| 1545.12.06 | M12x1.5 | 2.5-6.5   | 15 | 21 | 6  | BLACK | 100 |
| 1545.17.08 | M16x1.5 | 4.0-8.0   | 19 | 23 | 6  | BLACK | 50  |
| 1545.20.07 | M20x1.5 | 3.0-7.0   | 24 | 26 | 8  | BLACK | 50  |
| 1545.20.12 | M20x1.5 | 5.5-12.0  | 24 | 26 | 8  | BLACK | 50  |
| 1545.25.14 | M25x1.5 | 8.0-14.0  | 33 | 35 | 8  | BLACK | 25  |
| 1545.25.18 | M25x1.5 | 11.0-18.0 | 33 | 35 | 8  | BLACK | 25  |
| 1545.32.25 | M32x1.5 | 17.0-25.0 | 42 | 36 | 10 | BLACK | 20  |

MATERIAL: POLYAMIDE PA6  
 SEAL: CR (NEOPRENE)  
 TEMP. RANGE: -30°/+80°C  
 PROTECTION CLASS: IP 68

NPT NYLON CABLE GRIPS HAVE GALVANIZED STEEL LOCKNUTS

| PART NUMBER | SIZE | CABLE SIZE | WRENCH SIZE | H MM | L MM | COLOR | STD. PKG. SIZE |
|-------------|------|------------|-------------|------|------|-------|----------------|
|-------------|------|------------|-------------|------|------|-------|----------------|

ENTRY THREAD NPT

|               |          |           |       |    |    |      |    |
|---------------|----------|-----------|-------|----|----|------|----|
| 1555.N0375.08 | NPT 1/8" | 3.0-8.0   | 19/22 | 23 | 15 | GREY | 50 |
| 1555.N0500.07 | NPT 1/2" | 3.0-7.0   | 24    | 26 | 15 | GREY | 50 |
| 1555.N0500.12 | NPT 1/2" | 5.5-12.0  | 24    | 26 | 15 | GREY | 50 |
| 1555.N0750.14 | NPT 3/4" | 6.5-14.0  | 33    | 35 | 15 | GREY | 25 |
| 1555.N0750.18 | NPT 3/4" | 11.0-18.0 | 33    | 35 | 15 | GREY | 25 |
| 1555.N1000.22 | NPT 1"   | 17.0-22.0 | 42    | 36 | 15 | GREY | 20 |

|               |          |           |       |    |    |       |    |
|---------------|----------|-----------|-------|----|----|-------|----|
| 1545.N0375.08 | NPT 3/8" | 3.0-8.0   | 19/22 | 23 | 15 | BLACK | 50 |
| 1545.N0500.07 | NPT 1/2" | 3.0-7.0   | 24    | 26 | 15 | BLACK | 50 |
| 1545.N0500.12 | NPT 1/2" | 5.5-12.0  | 24    | 26 | 15 | BLACK | 50 |
| 1545.N0750.14 | NPT 3/4" | 6.5-14.0  | 33    | 35 | 15 | BLACK | 25 |
| 1545.N0750.18 | NPT 3/4" | 11.0-18.0 | 33    | 35 | 15 | BLACK | 25 |
| 1545.N1000.22 | NPT 1"   | 17.0-22.0 | 42    | 36 | 15 | BLACK | 20 |

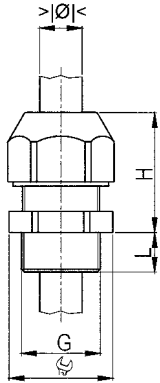


## SYNTHETIC CABLE GRIPS

WITH LAMELLAR TECHNOLOGY

SYNTEC®

THREAD: PG



MATERIAL: POLYAMIDE PA6  
SEAL: CR (NEOPRENE)  
TEMP. RANGE: -30°/+80°C  
PROTECTION CLASS: IP 68

| PART NUMBER | SIZE | CABLE DIAM. MM | WRENCH SIZE | H MM | L MM | COLOR | STD. PKG. SIZE |
|-------------|------|----------------|-------------|------|------|-------|----------------|
|-------------|------|----------------|-------------|------|------|-------|----------------|

ENTRY THREAD PG

|            |       |           |    |    |    |       |     |
|------------|-------|-----------|----|----|----|-------|-----|
| 1545.07.06 | PG 7  | 2.5-6.5   | 15 | 21 | 8  | BLACK | 100 |
| 1545.09.08 | PG 9  | 3.0-8.0   | 19 | 23 | 8  | BLACK | 50  |
| 1545.11.07 | PG 11 | 2.0-7.0   | 22 | 25 | 8  | BLACK | 50  |
| 1545.11.10 | PG 11 | 4.0-10.0  | 22 | 25 | 8  | BLACK | 50  |
| 1545.13.07 | PG 13 | 3.0-7.0   | 24 | 26 | 9  | BLACK | 50  |
| 1545.13.12 | PG 13 | 5.5-12.0  | 24 | 26 | 9  | BLACK | 50  |
| 1545.16.11 | PG 16 | 5.0-11.0  | 27 | 30 | 10 | BLACK | 50  |
| 1545.16.14 | PG 16 | 8.5-14.0  | 27 | 30 | 10 | BLACK | 50  |
| 1545.21.14 | PG 21 | 6.5-14.0  | 33 | 35 | 11 | BLACK | 25  |
| 1545.21.18 | PG 21 | 11.0-18.0 | 33 | 35 | 11 | BLACK | 25  |
| 1545.29.25 | PG 29 | 17.0-25.0 | 42 | 36 | 11 | BLACK | 20  |
| 1545.36.33 | PG 36 | 22.0-33.0 | 53 | 48 | 15 | BLACK | 10  |
| 1545.42.38 | PG 42 | 28.0-38.0 | 60 | 48 | 15 | BLACK | 5   |
| 1545.48.44 | PG 48 | 32.0-44.0 | 65 | 48 | 15 | BLACK | 5   |

MATERIAL: POLYAMIDE PA6  
SEAL: CR (NEOPRENE)  
TEMP. RANGE: -30°/+80°C  
PROTECTION CLASS: IP 68

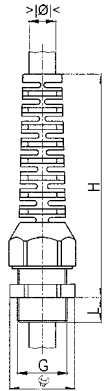
| PART NUMBER | SIZE | CABLE DIAM. MM | WRENCH SIZE | H MM | L MM | COLOR | STD. PKG. SIZE |
|-------------|------|----------------|-------------|------|------|-------|----------------|
|-------------|------|----------------|-------------|------|------|-------|----------------|

ENTRY THREAD PG

|            |       |           |    |    |    |      |     |
|------------|-------|-----------|----|----|----|------|-----|
| 1555.07.06 | PG 7  | 2.5-6.5   | 15 | 21 | 8  | GREY | 100 |
| 1555.09.08 | PG 9  | 3.0-8.0   | 19 | 23 | 8  | GREY | 50  |
| 1555.11.07 | PG 11 | 2.0-7.0   | 22 | 25 | 8  | GREY | 50  |
| 1555.11.10 | PG 11 | 4.0-10.0  | 22 | 25 | 8  | GREY | 50  |
| 1555.13.07 | PG 13 | 3.0-7.0   | 24 | 26 | 9  | GREY | 50  |
| 1555.13.12 | PG 13 | 5.5-12.0  | 24 | 26 | 9  | GREY | 50  |
| 1555.16.11 | PG 16 | 5.0-11.0  | 27 | 30 | 10 | GREY | 50  |
| 1555.16.14 | PG 16 | 8.5-14.0  | 27 | 30 | 10 | GREY | 50  |
| 1555.21.14 | PG 21 | 6.5-14.0  | 33 | 35 | 11 | GREY | 25  |
| 1555.21.18 | PG 21 | 11.0-18.0 | 33 | 35 | 11 | GREY | 25  |
| 1555.29.25 | PG 29 | 17.0-25.0 | 42 | 36 | 11 | GREY | 20  |
| 1555.36.33 | PG 36 | 22.0-33.0 | 53 | 48 | 15 | GREY | 10  |
| 1555.42.38 | PG 42 | 28.0-38.0 | 60 | 48 | 15 | GREY | 5   |
| 1555.48.44 | PG 48 | 32.0-44.0 | 65 | 48 | 15 | GREY | 5   |

## SYNTHETIC CABLE GRIPS

WITH LAMELLAR TECHNOLOGY  
AND ANTI-KINK NOZZLE SYNTEC®  
THREAD: PG



MATERIAL: POLYAMIDE PA6  
SEAL: CR(NEOPRENE)  
TEMP. RANGE: -30°/+80°C  
PROTECTION CLASS: IP 68

| PART NUMBER | SIZE | CABLE DIAM. MM | WRENCH SIZE | H MM | L MM | COLOR | STD. PKG. SIZE |
|-------------|------|----------------|-------------|------|------|-------|----------------|
|-------------|------|----------------|-------------|------|------|-------|----------------|

ENTRY THREAD PG

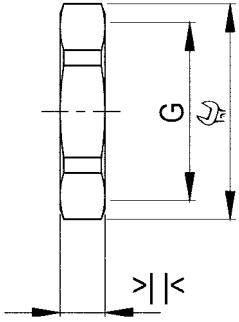
|                   |       |          |    |     |    |      |    |
|-------------------|-------|----------|----|-----|----|------|----|
| <b>1576.07.06</b> | PG 7  | 2.5-6.5  | 15 | 54  | 8  | GREY | 50 |
| <b>1576.09.08</b> | PG 9  | 3.0-8.0  | 19 | 64  | 8  | GREY | 50 |
| <b>1576.11.07</b> | PG 11 | 2.0-7.0  | 22 | 77  | 8  | GREY | 50 |
| <b>1576.11.10</b> | PG 11 | 4.0-10.0 | 22 | 77  | 8  | GREY | 50 |
| <b>1576.13.07</b> | PG 13 | 3.0-7.0  | 24 | 88  | 9  | GREY | 50 |
| <b>1576.13.12</b> | PG 13 | 5.5-12.0 | 24 | 88  | 9  | GREY | 50 |
| <b>1576.16.11</b> | PG 16 | 5.0-11.0 | 27 | 102 | 10 | GREY | 50 |
| <b>1576.16.14</b> | PG 16 | 8.5-14.0 | 27 | 102 | 10 | GREY | 50 |

|                   |       |          |    |     |    |       |    |
|-------------------|-------|----------|----|-----|----|-------|----|
| <b>1546.07.06</b> | PG 7  | 2.5-6.5  | 15 | 54  | 8  | BLACK | 50 |
| <b>1546.09.08</b> | PG 9  | 3.0-8.0  | 19 | 64  | 8  | BLACK | 50 |
| <b>1546.11.07</b> | PG 11 | 2.0-7.0  | 22 | 77  | 8  | BLACK | 50 |
| <b>1546.11.10</b> | PG 11 | 4.0-10.0 | 22 | 77  | 8  | BLACK | 50 |
| <b>1546.13.07</b> | PG 13 | 3.0-7.0  | 24 | 88  | 9  | BLACK | 50 |
| <b>1546.13.12</b> | PG 13 | 5.5-12.0 | 24 | 88  | 9  | BLACK | 50 |
| <b>1546.16.11</b> | PG 16 | 5.0-11.0 | 27 | 102 | 10 | BLACK | 50 |
| <b>1546.16.14</b> | PG 16 | 8.5-14.0 | 27 | 102 | 10 | BLACK | 50 |



## LOCK-NUTS METALLIC

THREAD: METRIC, PG, NPT



MATERIAL: NICKEL-PLATED BRASS  
TYPE: HEXAGONAL DESIGN



| PART NUMBER | SIZE | WRENCH SIZE | MM | STD. PKG. SIZE |
|-------------|------|-------------|----|----------------|
|-------------|------|-------------|----|----------------|

### THREAD METRIC

|         |                       |    |     |    |
|---------|-----------------------|----|-----|----|
| 8000.06 | M 6x1.0 <sup>1</sup>  | 9  | 2.8 | 50 |
| 8000.08 | M 8x1.25 <sup>1</sup> | 11 | 2.8 | 50 |
| 8000.10 | M10x1.5 <sup>1</sup>  | 13 | 2.8 | 50 |
| 8000.12 | M12x1.5               | 15 | 3.0 | 50 |
| 8000.17 | M16x1.5               | 19 | 3.0 | 50 |
| 8000.20 | M20x1.5               | 24 | 3.5 | 50 |
| 8000.25 | M25x1.5               | 30 | 3.5 | 25 |
| 8000.32 | M32x1.5               | 36 | 4.5 | 10 |
| 8000.40 | M40x1.5               | 46 | 4.5 | 10 |
| 8000.50 | M50x1.5               | 55 | 5.5 | 10 |
| 8000.63 | M63x1.5               | 70 | 6.0 | 10 |
| 8000.75 | M75x1.5               | 80 | 6.0 | 5  |

1 METRIC COARSE PITCH THREAD  
2 METRIC THREAD ACC. TO EN60423

### THREAD PG

|         |       |    |     |    |
|---------|-------|----|-----|----|
| 8007    | PG 7  | 15 | 2.8 | 50 |
| 8009    | PG 9  | 18 | 2.8 | 50 |
| 8011    | PG 11 | 21 | 3.0 | 50 |
| 8013    | PG 13 | 23 | 3.0 | 50 |
| 8016    | PG 16 | 26 | 3.0 | 50 |
| 8021    | PG 21 | 32 | 3.5 | 25 |
| 8029    | PG 29 | 41 | 4.0 | 10 |
| 8036    | PG 36 | 51 | 5.0 | 10 |
| 8042    | PG 42 | 60 | 5.0 | 10 |
| 8048.48 | PG 48 | 64 | 5.5 | 10 |



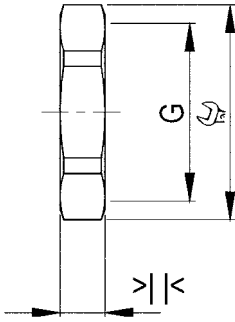
MATERIAL: GALVANIZED STEEL  
THREAD NPT



|          |      |      |   |
|----------|------|------|---|
| 0375.LN  | 3/8" | 3/8" | 1 |
| 0500.LN  | 1/2" | 1/2" | 1 |
| 0750.LN  | 3/4" | 3/4" | 1 |
| 01000.LN | 1"   | 1"   | 1 |

## LOCK-NUTS SYNTHETIC

THREAD: METRIC, PG



MATERIAL: POLYAMIDE, GLASS-FIBER REINFORCED  
TEMP. RANGE: -20°/+100°C



| PART NUMBER | SIZE | WRENCH SIZE | MM | COLOR | STD. PKG. SIZE |
|-------------|------|-------------|----|-------|----------------|
|-------------|------|-------------|----|-------|----------------|

THREAD METRIC

|             |         |    |      |      |     |
|-------------|---------|----|------|------|-----|
| <b>8212</b> | M12x1.5 | 17 | 5.0  | GREY | 100 |
| <b>8217</b> | M16x1.5 | 19 | 6.5  | GREY | 100 |
| <b>8220</b> | M20x1.5 | 26 | 7.0  | GREY | 100 |
| <b>8225</b> | M25x1.5 | 32 | 9.0  | GREY | 100 |
| <b>8232</b> | M32x1.5 | 41 | 9.0  | GREY | 100 |
| <b>8240</b> | M40x1.5 | 45 | 11.0 | GREY | 50  |
| <b>8250</b> | M50x1.5 | 59 | 11.0 | GREY | 10  |
| <b>8263</b> | M63x1.5 | 72 | 13.0 | GREY | 10  |

THREAD PG

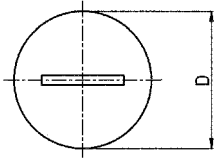
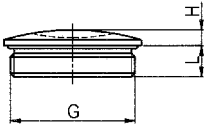


|             |       |    |     |      |     |
|-------------|-------|----|-----|------|-----|
| <b>8207</b> | PG 7  | 19 | 5.5 | GREY | 100 |
| <b>8209</b> | PG 9  | 22 | 5.5 | GREY | 100 |
| <b>8211</b> | PG 11 | 24 | 5.0 | GREY | 100 |
| <b>8213</b> | PG 13 | 27 | 6.0 | GREY | 100 |
| <b>8216</b> | PG 16 | 30 | 6.0 | GREY | 100 |
| <b>8221</b> | PG 21 | 36 | 7.5 | GREY | 100 |
| <b>8229</b> | PG 29 | 46 | 7.5 | GREY | 50  |
| <b>8236</b> | PG 36 | 60 | 8.5 | GREY | 25  |
| <b>8242</b> | PG 42 | 65 | 8.5 | GREY | 25  |
| <b>8248</b> | PG 48 | 70 | 8.5 | GREY | 25  |



## LOCKING PLUGS NICKEL-PLATED BRASS

THREAD: METRIC, PG



MATERIAL: NICKEL-PLATED BRASS  
O-RING: NBR  
FEATURES: FLANGED TYPE AND WITH O-RING  
O-RING  
TEMP. RANGE: -20°/+100°C  
PROTECTION CLASS: IP 68

| PART NUMBER | SIZE | CABLE DIAM. MM | H MM | L MM | STD. PKG. SIZE |
|-------------|------|----------------|------|------|----------------|
|-------------|------|----------------|------|------|----------------|

SHORT ENTRY THREAD METRIC  
WITH O-RING

|         |          |    |   |    |    |
|---------|----------|----|---|----|----|
| 8706.08 | M 6X1.0  | 9  | 3 | 5  | 50 |
| 8708.08 | M 8X1.25 | 10 | 3 | 5  | 50 |
| 8710.08 | M10X1.5  | 12 | 3 | 5  | 50 |
| 8712.08 | M12X1.5  | 14 | 3 | 5  | 50 |
| 8717.08 | M16X1.5  | 19 | 3 | 5  | 50 |
| 8720.08 | M20X1.5  | 24 | 3 | 6  | 25 |
| 8725.08 | M25X1.5  | 28 | 4 | 7  | 25 |
| 8732.08 | M32X1.5  | 35 | 4 | 8  | 10 |
| 8740.08 | M40X1.5  | 45 | 6 | 8  | 10 |
| 8750.08 | M50X1.5  | 55 | 6 | 9  | 10 |
| 8763.08 | M63X1.5  | 70 | 6 | 10 | 10 |
| 8775.08 | M75X1.5  | 80 | 6 | 11 | 5  |

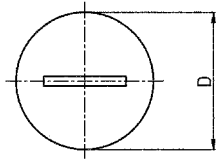
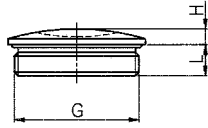
| PART NUMBER | SIZE | CABLE DIAM. MM | H MM | L MM | STD. PKG. SIZE |
|-------------|------|----------------|------|------|----------------|
|-------------|------|----------------|------|------|----------------|

SHORT ENTRY THREAD PG  
WITH O-RING

|            |       |    |   |      |     |
|------------|-------|----|---|------|-----|
| 8707.08    | PG 7  | 14 | 3 | 5.0  | 100 |
| 8709.08    | PG 9  | 17 | 3 | 6.0  | 100 |
| 8711.08    | PG 11 | 20 | 3 | 6.0  | 100 |
| 8713.08    | PG 13 | 22 | 3 | 6.5  | 50  |
| 8716.08    | PG 16 | 24 | 3 | 6.5  | 50  |
| 8721.08    | PG 21 | 30 | 4 | 7.0  | 10  |
| 8729.08    | PG 29 | 39 | 4 | 8.0  | 10  |
| 8736.08    | PG 36 | 50 | 6 | 9.0  | 10  |
| 8742.08    | PG 42 | 60 | 6 | 10.0 | 10  |
| 8748.08    | G2"   | 65 | 6 | 10.0 | 10  |
| 8748.48.08 | PG 48 | 65 | 6 | 10.0 | 10  |

## LOCKING PLUGS SYNTHETIC

THREAD: METRIC, PG



MATERIAL: POLYSTYROL, SHOCK RESISTANT  
 FEATURES: FLANGED TYPE  
 TEMP. RANGE: -20°/+80°C  
 PROTECTION CLASS: IP 54

| PART NUMBER | SIZE | CABLE DIAM. MM | H MM | L MM | COLOR | STD. PKG. SIZE |
|-------------|------|----------------|------|------|-------|----------------|
|-------------|------|----------------|------|------|-------|----------------|

SHORT ENTRY THREAD METRIC  
 WITHOUT O-RING

|             |         |    |   |    |      |     |
|-------------|---------|----|---|----|------|-----|
| <b>8812</b> | M12X1.5 | 15 | 4 | 6  | GREY | 100 |
| <b>8817</b> | M16X1.5 | 20 | 5 | 7  | GREY | 100 |
| <b>8820</b> | M20X1.5 | 24 | 5 | 7  | GREY | 100 |
| <b>8825</b> | M25X1.5 | 30 | 4 | 11 | GREY | 100 |
| <b>8832</b> | M32X1.5 | 37 | 5 | 11 | GREY | 100 |
| <b>8840</b> | M40X1.5 | 46 | 6 | 12 | GREY | 50  |
| <b>8850</b> | M50X1.5 | 55 | 7 | 13 | GREY | 25  |
| <b>8863</b> | M63X1.5 | 69 | 6 | 14 | GREY | 10  |

SHORT ENTRY THREAD PG  
 WITHOUT O-RING

|             |       |    |   |    |      |     |
|-------------|-------|----|---|----|------|-----|
| <b>8807</b> | PG 7  | 14 | 3 | 5  | GREY | 100 |
| <b>8809</b> | PG 9  | 20 | 3 | 6  | GREY | 100 |
| <b>8811</b> | PG 11 | 22 | 3 | 6  | GREY | 100 |
| <b>8813</b> | PG 13 | 25 | 4 | 6  | GREY | 100 |
| <b>8816</b> | PG 16 | 27 | 4 | 6  | GREY | 100 |
| <b>8821</b> | PG 21 | 33 | 4 | 8  | GREY | 100 |
| <b>8829</b> | PG 29 | 44 | 4 | 8  | GREY | 50  |
| <b>8836</b> | PG 36 | 55 | 4 | 10 | GREY | 25  |
| <b>8848</b> | PG 48 | 69 | 6 | 12 | GREY | 25  |



## CROSS REFERENCE

### HEYCO - AGRO

#### HEYCO - PG THREAD TYPE

#### AGRO - PG THREAD TYPE

| THREAD TYPE | HEYCO BLACK | HEYCO GREY | DIAMETER RANGE (MM) | DIAMETER RANGE (MM) | AGRO BLACK | AGRO GREY  |
|-------------|-------------|------------|---------------------|---------------------|------------|------------|
| PG7         | 3207        | 3208       | 2.3 - 6.4           | 2.5 - 6.5           | 1545.07.06 | 1555.07.06 |
| PG7         | 3444        | 3445       | 2.0 - 4.            | 2.5 - 6.5           | 1545.07.06 | 1555.07.06 |
| PG9         | 3210        | 3211       | 4.7 - 7.6           | 3.0 - 8.0           | 1545.09.08 | 1555.09.08 |
| PG9         | 3446        | 3447       | 3.0 - 5.8           | 3.0 - 8.0           | 1545.09.08 | 1555.09.08 |
| PG11        | 3213        | 3214       | 5.9 - 10.0          | 4.0 - 10.0          | 1545.11.10 | 1555.11.10 |
| PG11        | 3448        | 3449       | 3.8 - 7.0           | 2.0 - 7.0           | 1545.11.07 | 1555.11.07 |
| PG13        | 3216        | 3217       | 6.9 - 11.9          | 5.5 - 12.0          | 1545.13.12 | 1555.13.12 |
| PG13        | 3450        | 3451       | 5.0 - 8.8           | 3.0 - 7.0           | 1545.13.07 | 1555.13.07 |
| PG16        | 3219        | 3220       | 10.9 - 13.9         | 8.5 - 14.0          | 1545.16.14 | 1555.16.14 |
| PG16        | 3452        | 3453       | 8.1 - 11.9          | 5.0 - 11.0          | 1545.16.11 | 1555.16.11 |
| PG21        | 3222        | 3223       | 13.8 - 18.0         | 11.0 - 18.0         | 1545.21.18 | 1555.21.18 |
| PG21        | 3454        | 3455       | 11.6 - 16.0         | 6.5 - 14.0          | 1545.21.14 | 1555.21.14 |
| PG29        | 3225        | 3226       | 18.3 - 24.5         | 17.0 - 25.0         | 1545.29.25 | 1555.29.25 |
| PG29        | 3456        | 3457       | 16.3 - 19.6         | 17.0 - 25.0         | 1545.29.25 | 1555.29.25 |
| PG36        | 3204        | N/A        | 22.0 - 32.0         | 22.0 - 33.0         | 1545.36.33 | 1555.36.33 |
| PG36        | 3206        | N/A        | 20.0 - 26.0         | 22.0 - 33.0         | 1545.36.33 | 1555.36.33 |
| PG42        | 3212        | N/A        | 32.0 - 38.0         | 28.0 - 38.0         | 1545.42.38 | 1545.42.38 |
| PG42        | 3218        | N/A        | 25.0 - 31.0         | 28.0 - 38.0         | 1545.42.38 | 1545.42.38 |
| PG48        | 3281        | N/A        | 37.0 - 44.0         | 32.0 - 44.0         | 1545.48.44 | 1545.48.44 |
| PG48        | 3283        | N/A        | 29.0 - 35.0         | 32.0 - 44.0         | 1545.48.44 | 1545.48.44 |

#### HEYCO - NPT THREAD TYPE

#### AGRO - NPT THREAD TYPE

| THREAD TYPE | HEYCO BLACK | HEYCO GREY | DIAMETER RANGE (MM) | DIAMETER RANGE (MM) | AGRO BLACK    | AGRO GREY     |
|-------------|-------------|------------|---------------------|---------------------|---------------|---------------|
| NPT 3/8     | 3228        | 3229       | 4.7 - 7.9           | 3.0 - 8.0           | 1545.N0375.08 | 1555.N0375.08 |
| NPT 3/8     | 3458        | 3459       | 2.0 - 6.0           | 3.0 - 8.0           | 1545.N0375.08 | 1555.N0375.08 |
| NPT 1/2     | 3231        | 3232       | 6.9 - 11.8          | 5.5 - 12.0          | 1545.N0500.12 | 1555.N0500.12 |
| NPT 1/2     | 3224        | 3236       | 5.0 - 8.8           | 3.0 - 7.0           | 1545.N0500.07 | 1555.N0500.07 |
| NPT 3/4     | 3234        | 3235       | 13.8 - 18.0         | 11.0 - 18.0         | 1545.N0750.18 | 1555.N0750.18 |
| NPT 3/4     | 3460        | 3461       | 11.5 - 16.0         | 6.5 - 14.0          | 1545.N0750.14 | 1555.N0750.14 |
| NPT 1       | 8437        | 8438       | 18.0 - 25.4         | 17.0 - 22.0         | 1545.N1000.22 | 1555.N1000.22 |
| NPT 1       | 8439        | 8440       | 12.0 - 19.5         | 17.0 - 22.0         | 1545.N1000.22 | 1555.N1000.22 |

#### HEYCO - STRAIN RELIEF

#### AGRO - STRAIN RELIEF

| THREAD TYPE | HEYCO BLACK | HEYCO GREY | DIAMETER RANGE (MM) | DIAMETER RANGE (MM) | AGRO BLACK | AGRO GREY  |
|-------------|-------------|------------|---------------------|---------------------|------------|------------|
| PG7         | 3237        | 3228       | 2.3 - 6.4           | 2.5 - 6.5           | 1576.07.06 | 1546.07.06 |
| PG7         | 3464        | 3464       | 2.0 - 4.6           | 2.5 - 6.5           | 1576.07.06 | 1546.07.06 |
| PG9         | 3240        | 3241       | 4.7 - 7.6           | 3.0 - 8.0           | 1576.09.08 | 1546.09.08 |
| PG9         | 3466        | 3467       | 3.0 - 5.8           | 3.0 - 8.0           | 1576.09.08 | 1546.09.08 |
| PG11        | 3243        | 3244       | 5.9 - 10.0          | 4.0 - 10.0          | 1576.11.10 | 1546.11.10 |
| PG11        | 3468        | 3469       | 3.8 - 7.0           | 2.0 - 7.0           | 1576.11.07 | 1546.11.07 |
| PG13        | 3246        | 3247       | 6.9 - 11.9          | 5.5 - 12.0          | 1576.13.12 | 1546.13.12 |
| PG13        | 3470        | 3471       | 5.0 - 8.8           | 3.0 - 7.0           | 1576.13.07 | 1546.13.07 |
| PG16        | 3249        | 3250       | 10.9 - 13.9         | 8.5 - 14.0          | 1576.16.14 | 1546.16.14 |
| PG16        | 3472        | 3473       | 8.1 - 11.9          | 5.0 - 11.0          | 1576.16.11 | 1546.16.11 |

## CROSS REFERENCE

### OLFLEX - AGRO

| OLFLEX - PG THREAD TYPE |              |             |                     | AGRO - PG THREAD TYPE |            |            |
|-------------------------|--------------|-------------|---------------------|-----------------------|------------|------------|
| THREAD TYPE             | OLFLEX BLACK | OLFLEX GREY | DIAMETER RANGE (MM) | DIAMETER RANGE (MM)   | AGRO BLACK | AGRO GREY  |
| PG7                     | S2207        | S1207       | 2.0 - 5.0           | 2.5 - 6.5             | 1545.07.06 | 1555.07.06 |
| PG7                     | S2107        | S1107       | 3.0 - 6.5           | 2.5 - 6.5             | 1545.07.06 | 1555.07.06 |
| PG9                     | S2209        | S1209       | 2.0 - 6.0           | 3.0 - 8.0             | 1545.09.08 | 1555.09.08 |
| PG9                     | S2109        | S1109       | 4.0 - 8.0           | 3.0 - 8.0             | 1545.09.08 | 1555.09.08 |
| PG11                    | S2211        | S1211       | 4.0 - 7.0           | 2.0 - 7.0             | 1545.11.07 | 1555.11.07 |
| PG11                    | S2111        | S1111       | 5.1 - 10.0          | 4.0 - 10.0            | 1545.11.10 | 1555.11.10 |
| PG13                    | S2213        | S1213       | 8.7 - 9.0           | 3.0 - 7.0             | 1545.13.07 | 1555.13.07 |
| PG13                    | S2113        | S1113       | 6.0 - 12.0          | 5.5 - 12.0            | 1545.13.12 | 1555.13.12 |
| PG16                    | S2216        | S1216       | 10.7 - 12.2         | 5.0 - 11.0            | 1545.16.11 | 1555.16.11 |
| PG16                    | S2116        | S1116       | 10.0 - 14.0         | 8.5 - 14.0            | 1545.16.14 | 1555.16.14 |
| PG21                    | S2221        | S1221       | 12.2 - 15.7         | 6.5 - 14.0            | 1545.21.14 | 1555.21.14 |
| PG21                    | S2121        | S1121       | 13.8 - 18.0         | 11.0 - 18.0           | 1545.21.18 | 1555.21.18 |
| PG29                    | S2229        | S1229       | 13.0 - 20.0         | 17.0 - 25.0           | 1545.29.25 | 1555.29.25 |
| PG29                    | S2129        | S1129       | 18.0 - 25.0         | 17.0 - 25.0           | 1545.29.25 | 1555.29.25 |
| PG36                    | S2236        | S1236       | 20.0 - 26.0         | 22.0 - 33.0           | 1545.36.33 | 1555.36.33 |
| PG36                    | S2136        | S1136       | 22.0 - 32.0         | 22.0 - 33.0           | 1545.36.33 | 1555.36.33 |
| PG42                    | S2242        | S1242       | 25.0 - 31.0         | 28.0 - 38.0           | 1545.42.38 | 1555.42.38 |
| PG42                    | S2142        | S1142       | 32.0 - 38.0         | 28.0 - 38.0           | 1545.42.38 | 1555.42.38 |
| PG48                    | S2248        | S1248       | 29.0 - 35.0         | 32.0 - 44.0           | 1545.48.44 | 1555.48.44 |
| PG48                    | S2148        | S1148       | 37.0 - 44.0         | 32.0 - 44.0           | 1545.48.44 | 1555.48.44 |

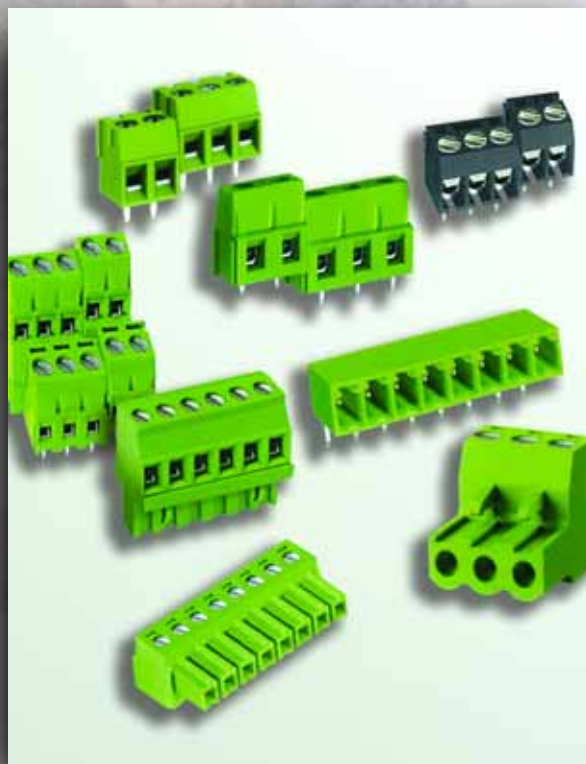
| OLFLEX - NPT THREAD TYPE |              |             |                     | AGRO - NPT THREAD TYPE |               |               |
|--------------------------|--------------|-------------|---------------------|------------------------|---------------|---------------|
| THREAD TYPE              | OLFLEX BLACK | OLFLEX GREY | DIAMETER RANGE (MM) | DIAMETER RANGE (MM)    | AGRO BLACK    | AGRO GREY     |
| NPT 3/8                  | S2238        | S1238       | 2.0 - 6.0           | 3.0 - 8.0              | 1545.N0375.08 | 1555.N0375.08 |
| NPT 3/8                  | S2138        | S1138       | 4.0 - 8.0           | 3.0 - 8.0              | 1545.N0375.08 | 1555.N0375.08 |
| NPT 1/2                  | S2212        | S1212       | 8.7 - 9.0           | 3.0 - 7.0              | 1545.N0500.07 | 1555.N0500.07 |
| NPT 1/2                  | S2112        | S1112       | 6.0 - 12.0          | 5.5 - 12.0             | 1545.N0500.12 | 1555.N0500.12 |
| NPT 3/4                  | S2234        | S1234       | 12.2 - 15.7         | 6.5 - 14.0             | 1545.N0750.14 | 1555.N0750.14 |
| NPT 3/4                  | S2134        | S1134       | 13.8 - 18.0         | 11.0 - 18.0            | 1545.N0750.18 | 1555.N0750.18 |
| NPT 1                    | S2201        | S1201       | 14.0 - 21.0         | 17.0 - 22.0            | 1545.N1000.22 | 1555.N1000.22 |
| NPT 1                    | S2101        | S1101       | 18.0 - 26.0         | 17.0 - 22.0            | 1545.N1000.22 | 1555.N1000.22 |

| OLFLEX - STRAIN RELIEF |              |             |                     | AGRO - STRAIN RELIEF |            |            |
|------------------------|--------------|-------------|---------------------|----------------------|------------|------------|
| THREAD TYPE            | OLFLEX BLACK | OLFLEX GREY | DIAMETER RANGE (MM) | DIAMETER RANGE (MM)  | AGRO BLACK | AGRO GREY  |
| PG7                    | S2407        | S1407       | 2.0 - 5.0           | 2.5 - 6.5            | 1576.07.06 | 1546.07.06 |
| PG7                    | S2307        | S1307       | 3.0 - 6.5           | 2.5 - 6.5            | 1576.07.06 | 1546.07.06 |
| PG9                    | S2409        | S1409       | 2.0 - 6.0           | 3.0 - 8.0            | 1576.09.08 | 1546.09.08 |
| PG9                    | S2309        | S1309       | 4.0 - 8.0           | 3.0 - 8.0            | 1576.09.08 | 1546.09.08 |
| PG11                   | S2411        | S1411       | 4.0 - 7.0           | 2.0 - 7.0            | 1576.11.07 | 1546.11.07 |
| PG11                   | S2311        | S1311       | 5.1 - 10.0          | 4.0 - 10.0           | 1576.11.10 | 1546.11.10 |
| PG13                   | S2413        | S1413       | 8.7 - 9.0           | 3.0 - 7.0            | 1576.13.07 | 1546.13.07 |
| PG13                   | S2313        | S1313       | 6.0 - 12.0          | 5.5 - 12.0           | 1576.13.12 | 1546.13.12 |
| PG16                   | S2416        | S1416       | 10.7 - 12.2         | 5.0 - 11.0           | 1576.16.11 | 1546.16.11 |
| PG16                   | S2316        | S1316       | 10.0 - 14.0         | 8.5 - 14.0           | 1576.16.14 | 1546.16.14 |



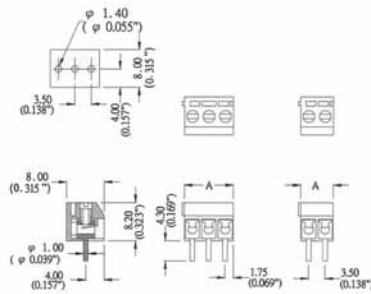
## PRINTED CIRCUIT BOARDS

AEI OFFERS SINGLE AND DUAL LEVEL TERMINAL BLOCKS FOR PRINTED CIRCUIT BOARDS ON 3.5MM, 5.0MM, 5.08MM, 7.5MM AND 7.62MM IN MODULAR 2 OR 3 POLE DESIGNS. CONNECTORS ARE OFFERED FROM 3.50MM, 3.81MM, 5.00MM AND 5.08MM VERSIONS IN 90° AND 180° CONFIGURATION UP TO 24 POLES.



# PRINTED CIRCUIT BOARD

## TERMINAL BLOCKS



### SINGLE LEVEL • 90° • PITCH: 3.50 MM

#### TECHNICAL

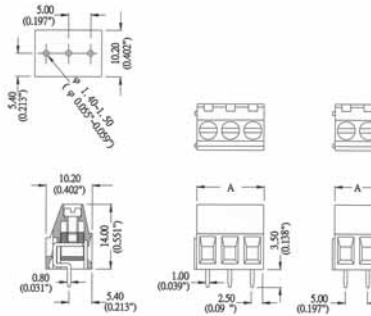
|                               |                          |
|-------------------------------|--------------------------|
| TERMINAL:                     | BRASS, TIN PLATED        |
| WIRE PROTECTOR:               | STAINLESS STRIP STEEL    |
| INSULATING BODY:              | POLYESTER                |
| SCREW:                        | M2.0, STEEL, CHROMATIZED |
| COLOR:                        | BLACK                    |
| OPERATION TEMPERATURE:        | -33°C TO +105°C          |
| SHORT-TIME TEMPERATURE:       | UP TO 200°C (+392°F)     |
| CURRENT RATING:               | 6 AMP AC300V             |
| INSULATION WITHSTANDING VOLT: | AC1500V MIN              |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V         |
| PCB HOLE DIAMETER:            | φ 1.4 MM                 |
| WIRE STRIP LENGTH:            | 4MM - 5MM                |
| WIRE RANGE:                   | 16 - 26 AWG              |
| SCREWS TORQUE:                | 2.5 LB-INCH              |

| ITEM NO.           | POLES | A (MM) | A (INCH) |
|--------------------|-------|--------|----------|
| <b>T-212-350M2</b> | 2     | 7.00   | 0.276    |
| <b>T-212-350M3</b> | 3     | 10.50  | 0.413    |

### SINGLE LEVEL • 90° • PITCH: 5.00 MM

#### TECHNICAL

|                               |                         |
|-------------------------------|-------------------------|
| CAGE CLAMP:                   | BRASS, NI PLATED        |
| TERMINAL:                     | BRASS, TIN PLATED, 0.8T |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)   |
| SCREW:                        | M2.6, STEEL, NI PLATED  |
| COLOR:                        | GREEN                   |
| OPERATION TEMPERATURE:        | -55°C TO +105°C         |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)    |
| CURRENT RATING:               | 16 AMP AC300V           |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN             |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V        |
| PCB HOLE DIAMETER:            | φ 1.4 MM - φ 1.5 MM     |
| WIRE STRIP LENGTH:            | 4MM - 5MM               |
| WIRE RANGE:                   | 14 - 24 AWG             |
| SCREWS TORQUE:                | 5.0 LB-INCH             |

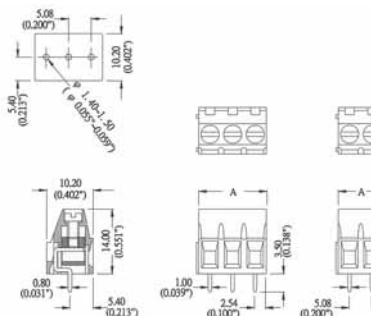


| ITEM NO.           | POLES | A (MM) | A (INCH) |
|--------------------|-------|--------|----------|
| <b>T-312-500M2</b> | 2     | 10.00  | 0.394    |
| <b>T-312-500M3</b> | 3     | 15.00  | 0.591    |

### SINGLE LEVEL • 90° • PITCH: 5.08 MM

#### TECHNICAL

|                               |                         |
|-------------------------------|-------------------------|
| TERMINAL:                     | BRASS, NI PLATED        |
| WIRE PROTECTOR:               | BRASS, TIN PLATED, 0.8T |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)   |
| SCREW:                        | M2.6, STEEL, NI PLATED  |
| COLOR:                        | GREEN                   |
| OPERATION TEMPERATURE:        | -55°C TO +105°C         |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)    |
| CURRENT RATING:               | 16 AMP AC300V           |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN             |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V        |
| PCB HOLE DIAMETER:            | φ 1.4 MM - φ 1.5 MM     |
| WIRE STRIP LENGTH:            | 4MM - 5MM               |
| WIRE RANGE:                   | 14 - 24 AWG             |
| SCREWS TORQUE:                | 5.0 LB-INCH             |



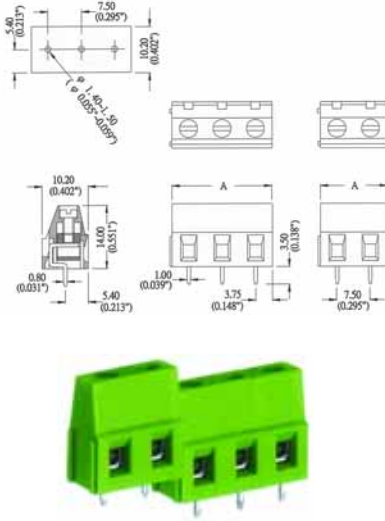
| ITEM NO.           | POLES | A (MM) | A (INCH) |
|--------------------|-------|--------|----------|
| <b>T-312-508M2</b> | 2     | 10.16  | 0.400    |
| <b>T-312-508M3</b> | 3     | 15.24  | 0.600    |



## PRINTED CIRCUIT BOARD

### TERMINAL BLOCKS

#### SINGLE LEVEL • 90° • PITCH: 7.50 MM

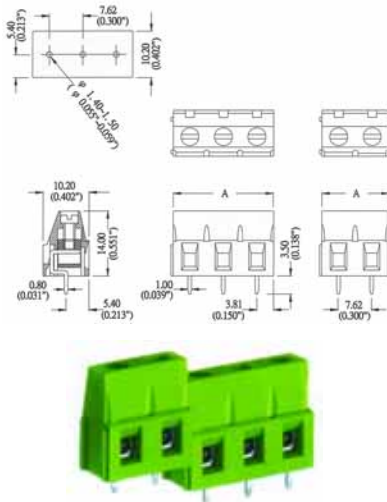


##### TECHNICAL

|                               |                         |
|-------------------------------|-------------------------|
| CAGE CLAMP:                   | BRASS, NI PLATED        |
| TERMINAL:                     | BRASS, TIN PLATED, 0.8T |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)   |
| SCREW:                        | M2.6, STEEL, NI PLATED  |
| COLOR:                        | GREEN                   |
| OPERATION TEMPERATURE:        | -55°C TO +105°C         |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)    |
| CURRENT RATING:               | 16 AMP AC300V           |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN             |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V        |
| PCB HOLE DIAMETER:            | φ 1.4 MM - φ 1.5 MM     |
| WIRE STRIP LENGTH:            | 4MM - 5MM               |
| WIRE RANGE:                   | 14 - 24 AWG             |
| SCREWS TORQUE:                | 5.0 LB-INCH             |

| ITEM NO.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|
| T-312-750M2 | 2     | 15.00  | 0.591    |
| T-312-750M3 | 3     | 22.50  | 0.886    |

#### SINGLE LEVEL • 90° • PITCH: 7.62 MM

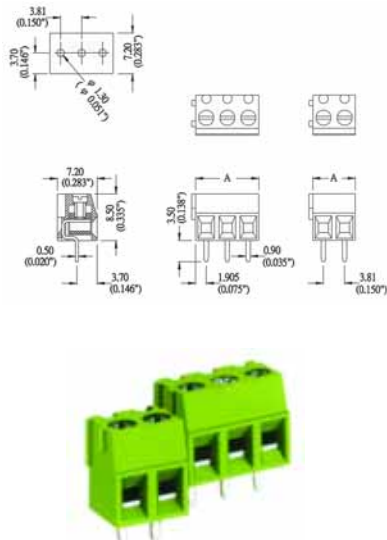


##### TECHNICAL

|                               |                         |
|-------------------------------|-------------------------|
| CAGE CLAMP:                   | BRASS, NI PLATED        |
| TERMINAL:                     | BRASS, TIN PLATED, 0.8T |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)   |
| SCREW:                        | M2.6, STEEL, NI PLATED  |
| COLOR:                        | GREEN                   |
| OPERATION TEMPERATURE:        | -55°C TO +105°C         |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)    |
| CURRENT RATING:               | 16 AMP AC300V           |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN             |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V        |
| PCB HOLE DIAMETER:            | φ 1.4 MM - φ 1.5 MM     |
| WIRE STRIP LENGTH:            | 4MM - 5MM               |
| WIRE RANGE:                   | 14 - 24 AWG             |
| SCREWS TORQUE:                | 5.0 LB-INCH             |

| ITEM NO.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|
| T-312-762M2 | 2     | 15.24  | 0.600    |
| T-312-762M3 | 3     | 22.86  | 0.900    |

#### SINGLE LEVEL • 90° • PITCH: 3.81 MM



##### TECHNICAL

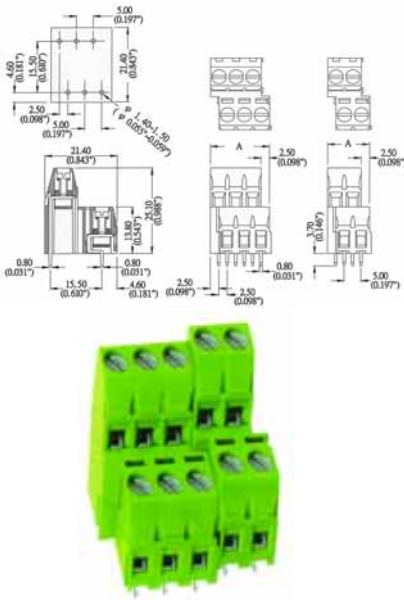
|                               |                         |
|-------------------------------|-------------------------|
| CAGE CLAMP:                   | BRASS, NI PLATED        |
| TERMINAL:                     | BRASS, TIN PLATED, 0.5T |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)   |
| SCREW:                        | M2.0, STEEL, NI PLATED  |
| COLOR:                        | GREEN                   |
| OPERATION TEMPERATURE:        | -55°C TO +105°C         |
| SHORT-TIME TEMPERATURE:       | UP TO 200°C (+392°F)    |
| CURRENT RATING:               | 8 AMP AC300V            |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN             |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V        |
| PCB HOLE DIAMETER:            | φ 1.3                   |
| WIRE STRIP LENGTH:            | 4MM - 5MM               |
| WIRE RANGE:                   | 16 - 26 AWG             |
| SCREWS TORQUE:                | 2.5 LB-INCH             |

| ITEM NO.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|
| T-332-381M2 | 2     | 7.62   | 0.300    |
| T-332-381M3 | 3     | 11.43  | 0.450    |

# PRINTED CIRCUIT BOARD

## TERMINAL BLOCKS

### DOUBLE LEVEL • 90° • PITCH: 5.00 MM

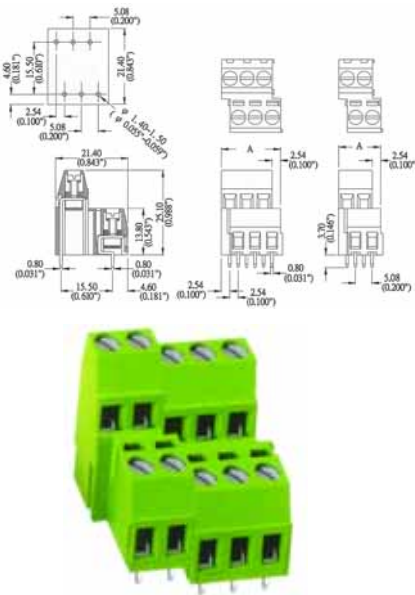


#### TECHNICAL

|                               |                             |
|-------------------------------|-----------------------------|
| CAGE CLAMP:                   | BRASS, NI PLATED            |
| TERMINAL:                     | BRASS, TIN PLATED, 0.8T     |
| INSULATING                    | BODY: POLYAMIDE66 (UL94V-0) |
| SCREW:                        | M2.6, STEEL, NI PLATED      |
| COLOR:                        | GREEN                       |
| OPERATION TEMPERATURE:        | -55°C TO +105°C             |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)        |
| CURRENT RATING:               | 16 AMP AC300V               |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN                 |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V            |
| PCB HOLE DIAMETER:            | φ 1.4 MM - φ 1.5 MM         |
| WIRE STRIP LENGTH:            | 4MM - 5MM                   |
| WIRE RANGE:                   | 14 - 24 AWG                 |
| SCREWS TORQUE:                | 4.5 LB-INCH                 |

| ITEM NO.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|
| T-362-500M2 | 2     | 12.50  | 0.492    |
| T-362-500M3 | 3     | 17.50  | 0.689    |

### DOUBLE LEVEL • 90° • PITCH: 5.08 MM



#### TECHNICAL

|                               |                         |
|-------------------------------|-------------------------|
| CAGE CLAMP:                   | BRASS, NI PLATED        |
| TERMINAL:                     | BRASS, TIN PLATED, 0.8T |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)   |
| SCREW:                        | M2.6, STEEL, NI PLATED  |
| COLOR:                        | GREEN                   |
| OPERATION TEMPERATURE:        | -55°C TO +105°C         |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)    |
| CURRENT RATING:               | 16 AMP AC300V           |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN             |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V        |
| PCB HOLE DIAMETER:            | φ 1.4 MM - φ 1.5 MM     |
| WIRE STRIP LENGTH:            | 4MM - 5MM               |
| WIRE RANGE:                   | 14 - 24 AWG             |
| SCREWS TORQUE:                | 4.5 LB-INCH             |

| ITEM NO.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|
| T-362-508M2 | 2     | 12.70  | 0.500    |
| T-362-508M3 | 3     | 17.78  | 0.700    |



## PRINTED CIRCUIT BOARD

### PLUGS

#### PLUGS • 180°

##### TECHNICAL

|                               |                                   |
|-------------------------------|-----------------------------------|
| CAGE CLAMP:                   | BRASS, NI PLATED                  |
| CONTACT:                      | PHOSPHOR BRONZE, TIN PLATED, 0.4T |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)             |
| SCREW:                        | M3.0, STEEL, ZINC PLATED          |
| COLOR:                        | GREEN                             |
| OPERATION TEMPERATURE:        | -55°C TO +105°C                   |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)              |
| CURRENT RATING:               | 16 AMP AC300V                     |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN                       |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V                  |
| WIRE STRIP LENGTH:            | 4 MM - 5 MM                       |
| WIRE RANGE:                   | 14 - 24 AWG                       |
| SCREWS TORQUE:                | 4.5 LB-INCH                       |

#### PITCH: 5.00 MM

| ITEM No.    | POLES | A (MM) | A (INCH) | ITEM No.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|-------------|-------|--------|----------|
| P-100-50002 | 2     | 10.00  | 0.394    | P-100-50009 | 9     | 45.00  | 1.772    |
| P-100-50003 | 3     | 15.00  | 0.591    | P-100-50010 | 10    | 50.00  | 1.969    |
| P-100-50004 | 4     | 20.00  | 0.787    | P-100-50011 | 11    | 55.00  | 2.165    |
| P-100-50005 | 5     | 25.00  | 0.984    | P-100-50012 | 12    | 60.00  | 2.362    |
| P-100-50006 | 6     | 30.00  | 1.181    |             |       |        |          |
| P-100-50007 | 7     | 35.00  | 1.378    | P-100-50024 | 24    | 120.00 | 4.724    |
| P-100-50008 | 8     | 40.00  | 1.575    |             |       |        |          |

#### PITCH: 5.08 MM

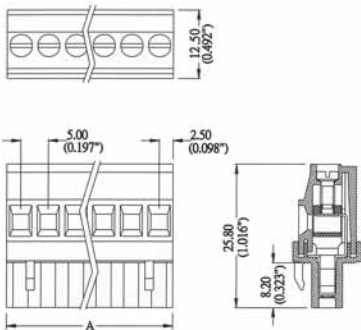
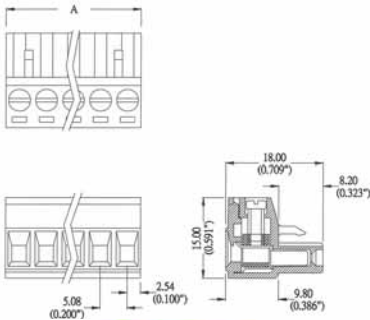
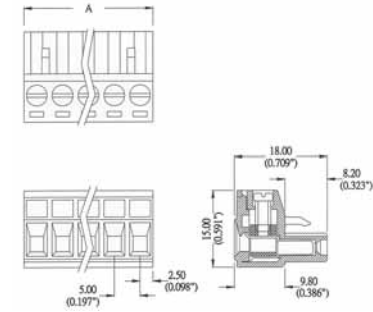
| ITEM No.    | POLES | A (MM) | A (INCH) | ITEM No.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|-------------|-------|--------|----------|
| P-100-50802 | 2     | 10.16  | 0.400    | P-100-50809 | 9     | 45.72  | 1.800    |
| P-100-50803 | 3     | 15.24  | 0.600    | P-100-50810 | 10    | 50.80  | 2.000    |
| P-100-50804 | 4     | 20.32  | 0.800    | P-100-50811 | 11    | 55.88  | 2.200    |
| P-100-50805 | 5     | 25.40  | 1.000    | P-100-50812 | 12    | 60.96  | 2.400    |
| P-100-50806 | 6     | 30.48  | 1.200    |             |       |        |          |
| P-100-50807 | 7     | 35.56  | 1.400    | P-100-50824 | 24    | 121.92 | 4.800    |
| P-100-50808 | 8     | 40.64  | 1.600    |             |       |        |          |

#### PLUGS • 90° • PITCH: 5.00 MM

##### TECHNICAL

|                               |                                   |
|-------------------------------|-----------------------------------|
| CAGE CLAMP:                   | BRASS, NI PLATED                  |
| CONTACT:                      | PHOSPHOR BRONZE, TIN PLATED, 0.4T |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)             |
| SCREW:                        | M2.6, STEEL, ZINC PLATED          |
| COLOR:                        | GREEN                             |
| OPERATION TEMPERATURE:        | -55°C TO +105°C                   |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)              |
| CURRENT RATING:               | 16 AMP AC300V                     |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN                       |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V                  |
| WIRE STRIP LENGTH:            | 7 MM                              |
| WIRE RANGE:                   | 14 - 24 AWG                       |
| SCREWS TORQUE:                | 4.5 LB-INCH                       |

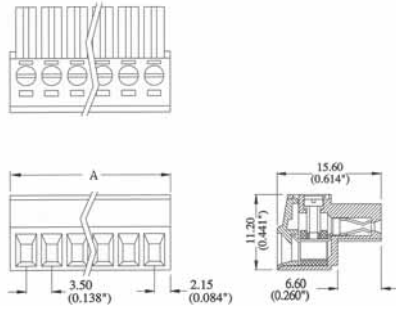
| ITEM No.    | POLES | A (MM) | A (INCH) | ITEM No.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|-------------|-------|--------|----------|
| P-200-50002 | 2     | 10.00  | 0.394    | P-200-50009 | 9     | 45.00  | 1.772    |
| P-200-50003 | 3     | 15.00  | 0.591    | P-200-50010 | 10    | 50.00  | 1.969    |
| P-200-50004 | 4     | 20.00  | 0.787    | P-200-50011 | 11    | 55.00  | 2.165    |
| P-200-50005 | 5     | 25.00  | 0.984    | P-200-50012 | 12    | 60.00  | 2.362    |
| P-200-50006 | 6     | 30.00  | 1.181    |             |       |        |          |
| P-200-50007 | 7     | 35.00  | 1.378    | P-200-50024 | 24    | 120.00 | 4.724    |
| P-200-50008 | 8     | 40.00  | 1.575    |             |       |        |          |



# PRINTED CIRCUIT BOARD

## PLUGS

### PLUGS • 180° • PITCH: 3.50 MM

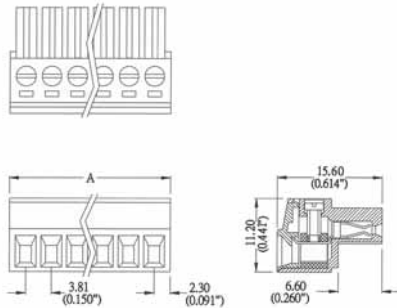


#### TECHNICAL

|                               |                                   |
|-------------------------------|-----------------------------------|
| CAGE CLAMP:                   | BRASS, NI PLATED                  |
| CONTACT:                      | PHOSPHOR BRONZE, TIN PLATED, 0.3T |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)             |
| SCREW:                        | M2.0, STEEL, ZINC                 |
| COLOR:                        | GREEN                             |
| OPERATION TEMPERATURE:        | -55°C TO +105°C                   |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)              |
| CURRENT RATING:               | 10 AMP AC300V                     |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN                       |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V                  |
| WIRE STRIP LENGTH:            | 6.5 MM                            |
| WIRE RANGE:                   | 16 - 26 AWG                       |
| SCREWS TORQUE:                | 2.5 LB-INCH                       |

| ITEM No.    | POLES | A (MM) | A (INCH) | ITEM No.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|-------------|-------|--------|----------|
| P-420-35002 | 2     | 7.80   | 0.307    | P-420-35009 | 9     | 32.30  | 1.272    |
| P-420-35003 | 3     | 11.30  | 0.445    | P-420-35010 | 10    | 35.80  | 1.409    |
| P-420-35004 | 4     | 14.80  | 0.583    | P-420-35011 | 11    | 39.30  | 1.547    |
| P-420-35005 | 5     | 18.30  | 0.720    | P-420-35012 | 12    | 42.80  | 1.685    |
| P-420-35006 | 6     | 21.80  | 0.858    | P-420-35013 | 13    | 46.30  | 1.823    |
| P-420-35007 | 7     | 25.30  | 0.996    | P-420-35014 | 14    | 49.80  | 1.961    |
| P-420-35008 | 8     | 28.80  | 1.134    |             |       |        |          |

### PLUGS • 180° • PITCH: 3.81 MM



#### TECHNICAL

|                               |                                   |
|-------------------------------|-----------------------------------|
| CAGE CLAMP:                   | BRASS, NI PLATED                  |
| CONTACT:                      | PHOSPHOR BRONZE, TIN PLATED, 0.3T |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)             |
| SCREW:                        | M2.0, STEEL, ZINC                 |
| COLOR:                        | GREEN                             |
| OPERATION TEMPERATURE:        | -55°C TO +105°C                   |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)              |
| CURRENT RATING:               | 10 AMP AC300V                     |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN                       |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V                  |
| WIRE STRIP LENGTH:            | 6.5 MM                            |
| WIRE RANGE:                   | 16 - 26 AWG                       |
| SCREWS TORQUE:                | 2.5 LB-INCH                       |

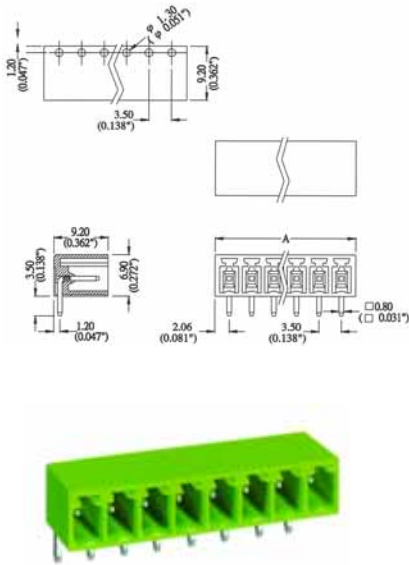
| ITEM No.    | POLES | A (MM) | A (INCH) | ITEM No.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|-------------|-------|--------|----------|
| P-420-38102 | 2     | 8.41   | 0.331    | P-420-38109 | 9     | 35.08  | 1.381    |
| P-420-38103 | 3     | 12.22  | 0.481    | P-420-38110 | 10    | 38.89  | 1.531    |
| P-420-38104 | 4     | 16.03  | 0.631    | P-420-38111 | 11    | 42.70  | 1.681    |
| P-420-38105 | 5     | 19.84  | 0.781    | P-420-38112 | 12    | 46.51  | 1.831    |
| P-420-38106 | 6     | 23.65  | 0.931    |             |       |        |          |
| P-420-38107 | 7     | 27.46  | 1.081    | P-420-38116 | 16    | 61.75  | 2.431    |
| P-420-38108 | 8     | 31.27  | 1.231    |             |       |        |          |



## PRINTED CIRCUIT BOARD

### HEADERS

HEADERS • CLOSED 90° • PITCH: 3.50 MM

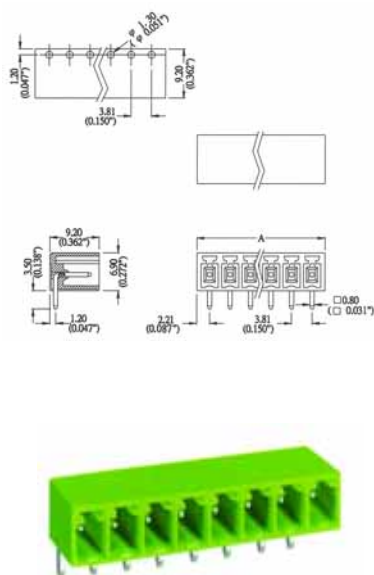


#### TECHNICAL

|                               |                           |
|-------------------------------|---------------------------|
| SOLDER PIN:                   | 0.8 MM, BRASS, TIN PLATED |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)     |
| COLOR:                        | GREEN                     |
| OPERATION TEMPERATURE:        | -55°C TO +105°C           |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)      |
| CURRENT RATING:               | 12 AMP AC300V             |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN               |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V          |
| PDB HOLE DIAMETER:            | φ 1.3 MM                  |

| ITEM NO.    | POLES | A (MM) | A (INCH) | ITEM NO.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|-------------|-------|--------|----------|
| H-030-35002 | 2     | 7.60   | 0.299    | H-030-35009 | 9     | 32.10  | 1.264    |
| H-030-35003 | 3     | 11.10  | 0.437    | H-030-35010 | 10    | 35.60  | 1.402    |
| H-030-35004 | 4     | 14.60  | 0.575    | H-030-35011 | 11    | 39.10  | 1.539    |
| H-030-35005 | 5     | 18.10  | 0.713    | H-030-35012 | 12    | 42.60  | 1.677    |
| H-030-35006 | 6     | 21.60  | 0.850    | H-030-35013 | 13    | 46.10  | 1.815    |
| H-030-35007 | 7     | 25.10  | 0.988    | H-030-35014 | 14    | 49.60  | 1.953    |
| H-030-35008 | 8     | 28.60  | 1.126    |             |       |        |          |

HEADERS • CLOSED 90° • PITCH: 3.81 MM



#### TECHNICAL

|                               |                           |
|-------------------------------|---------------------------|
| SOLDER PIN:                   | 0.8 MM, BRASS, TIN PLATED |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)     |
| COLOR:                        | GREEN                     |
| OPERATION TEMPERATURE:        | -55°C TO +105°C           |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)      |
| CURRENT RATING:               | 12 AMP AC300V             |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN               |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V          |
| PDB HOLE DIAMETER:            | φ 1.3 MM                  |

| ITEM NO.    | POLES | A (MM) | A (INCH) | ITEM NO.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|-------------|-------|--------|----------|
| H-030-38102 | 2     | 8.23   | 0.324    | H-030-38109 | 9     | 34.90  | 1.374    |
| H-030-38103 | 3     | 12.04  | 0.474    | H-030-38110 | 10    | 38.71  | 1.524    |
| H-030-38104 | 4     | 15.85  | 0.624    | H-030-38111 | 11    | 42.52  | 1.674    |
| H-030-38105 | 5     | 19.66  | 0.774    | H-030-38112 | 12    | 46.33  | 1.824    |
| H-030-38106 | 6     | 23.47  | 0.924    |             |       |        |          |
| H-030-38107 | 7     | 27.28  | 1.074    | H-030-38116 | 16    | 61.57  | 2.424    |
| H-030-38108 | 8     | 31.09  | 1.224    |             |       |        |          |

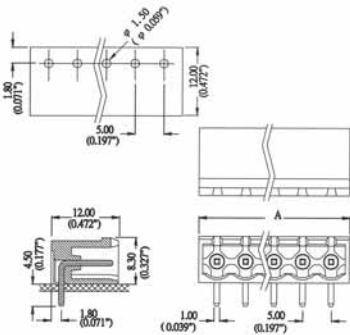
# PRINTED CIRCUIT BOARD

## HEADERS

HEADERS • CLOSED 90° • PITCH: 5.00 MM

### TECHNICAL

|                               |                           |
|-------------------------------|---------------------------|
| SOLDER PIN:                   | 1.0 MM, BRASS, TIN PLATED |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)     |
| COLOR:                        | GREEN                     |
| OPERATION TEMPERATURE:        | -55°C TO +105°C           |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)      |
| CURRENT RATING:               | 12 AMP AC300V             |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN               |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V          |
| PDB HOLE DIAMETER:            | φ 1.5 MM                  |

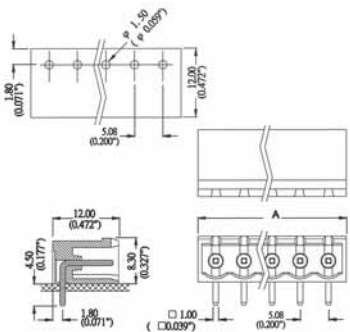


| ITEM NO.    | POLES | A (MM) | A (INCH) | ITEM NO.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|-------------|-------|--------|----------|
| H-030-50002 | 2     | 11.60  | 0.457    | H-030-50009 | 9     | 46.60  | 1.835    |
| H-030-50003 | 3     | 16.60  | 0.654    | H-030-50010 | 10    | 51.60  | 2.031    |
| H-030-50004 | 4     | 21.60  | 0.850    | H-030-50011 | 11    | 56.60  | 2.228    |
| H-030-50005 | 5     | 26.60  | 1.047    | H-030-50012 | 12    | 61.60  | 2.425    |
| H-030-50006 | 6     | 31.60  | 1.244    |             |       |        |          |
| H-030-50007 | 7     | 36.60  | 1.441    | H-030-50016 | 16    | 121.60 | 4.787    |
| H-030-50008 | 8     | 41.60  | 1.638    |             |       |        |          |

HEADERS • CLOSED 90° • PITCH: 5.08 MM

### TECHNICAL

|                               |                           |
|-------------------------------|---------------------------|
| SOLDER PIN:                   | 1.0 MM, BRASS, TIN PLATED |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)     |
| COLOR:                        | GREEN                     |
| OPERATION TEMPERATURE:        | -55°C TO +105°C           |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)      |
| CURRENT RATING:               | 12 AMP AC300V             |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN               |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V          |
| PDB HOLE DIAMETER:            | φ 1.5 MM                  |



| ITEM NO.    | POLES | A (MM) | A (INCH) | ITEM NO.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|-------------|-------|--------|----------|
| H-030-50802 | 2     | 11.76  | 0.463    | H-030-50809 | 9     | 47.32  | 1.863    |
| H-030-50803 | 3     | 16.84  | 0.663    | H-030-50810 | 10    | 52.40  | 2.063    |
| H-030-50804 | 4     | 21.92  | 0.863    | H-030-50811 | 11    | 57.48  | 2.263    |
| H-030-50805 | 5     | 27.00  | 1.063    | H-030-50812 | 12    | 62.56  | 2.463    |
| H-030-50806 | 6     | 32.08  | 1.263    |             |       |        |          |
| H-030-50807 | 7     | 37.16  | 1.463    | H-030-50816 | 16    | 123.52 | 4.863    |
| H-030-50808 | 8     | 42.24  | 1.663    |             |       |        |          |



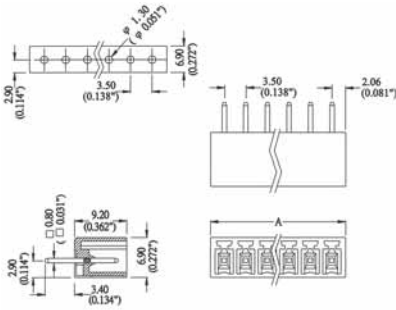
## PRINTED CIRCUIT BOARD

### HEADERS

#### HEADERS • CLOSED 180° • PITCH: 3.50 MM

##### TECHNICAL

|                               |                           |
|-------------------------------|---------------------------|
| SOLDER PIN:                   | 0.8 MM, BRASS, TIN PLATED |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-O)     |
| COLOR:                        | GREEN                     |
| OPERATION TEMPERATURE:        | -55°C TO +105°C           |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)      |
| CURRENT RATING:               | 12 AMP AC300V             |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN               |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V          |
| PDB HOLE DIAMETER:            | φ 1.3 MM                  |

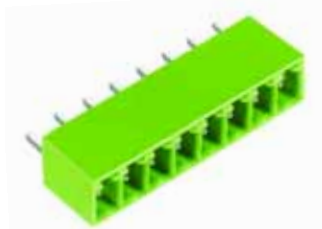
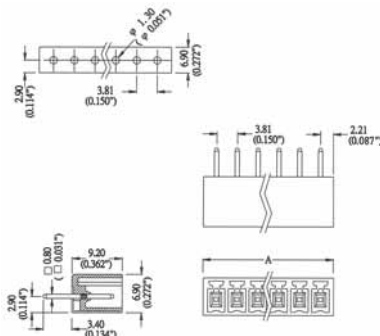


| ITEM No.    | POLES | A (MM) | A (INCH) | ITEM No.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|-------------|-------|--------|----------|
| H-040-35002 | 2     | 7.60   | 0.299    | H-040-35009 | 9     | 32.10  | 1.264    |
| H-040-35003 | 3     | 11.10  | 0.437    | H-040-35010 | 10    | 35.60  | 1.402    |
| H-040-35004 | 4     | 14.60  | 0.575    | H-040-35011 | 11    | 39.10  | 1.539    |
| H-040-35005 | 5     | 18.10  | 0.713    | H-040-35012 | 12    | 42.60  | 1.677    |
| H-040-35006 | 6     | 21.60  | 0.850    | H-040-35013 | 13    | 46.10  | 1.815    |
| H-040-35007 | 7     | 25.10  | 0.988    | H-040-35014 | 14    | 49.60  | 1.953    |
| H-040-35008 | 8     | 28.60  | 1.126    |             |       |        |          |

#### HEADERS • CLOSED 180° • PITCH: 3.81 MM

##### TECHNICAL

|                               |                           |
|-------------------------------|---------------------------|
| SOLDER PIN:                   | 0.8 MM, BRASS, TIN PLATED |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-O)     |
| COLOR:                        | GREEN                     |
| OPERATION TEMPERATURE:        | -55°C TO +105°C           |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)      |
| CURRENT RATING:               | 12 AMP AC300V             |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN               |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V          |
| PDB HOLE DIAMETER:            | φ 1.3 MM                  |

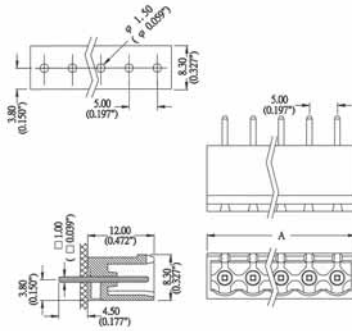


| ITEM No.    | POLES | A (MM) | A (INCH) | ITEM No.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|-------------|-------|--------|----------|
| H-040-38102 | 2     | 8.23   | 0.324    | H-040-38109 | 9     | 34.90  | 1.374    |
| H-040-38103 | 3     | 12.04  | 0.474    | H-040-38110 | 10    | 38.71  | 1.524    |
| H-040-38104 | 4     | 15.85  | 0.624    | H-040-38111 | 11    | 42.52  | 1.674    |
| H-040-38105 | 5     | 19.66  | 0.774    | H-040-38112 | 12    | 46.33  | 1.824    |
| H-040-38106 | 6     | 23.47  | 0.924    |             |       |        |          |
| H-040-38107 | 7     | 27.28  | 1.074    | H-040-38116 | 16    | 61.57  | 2.424    |
| H-040-38108 | 8     | 31.09  | 1.224    |             |       |        |          |

# PRINTED CIRCUIT BOARD

## HEADERS

### HEADERS • CLOSED 180° • PITCH: 5.00 MM

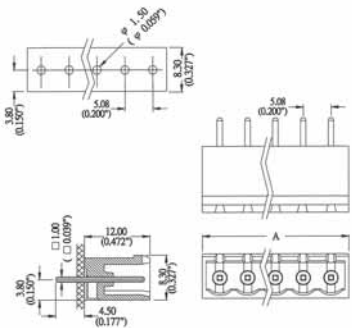


#### TECHNICAL

|                               |                           |
|-------------------------------|---------------------------|
| SOLDER PIN:                   | 1.0 MM, BRASS, TIN PLATED |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)     |
| COLOR:                        | GREEN                     |
| OPERATION TEMPERATURE:        | -55°C TO +105°C           |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)      |
| CURRENT RATING:               | 12 AMP AC300V             |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN               |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V          |
| PDB HOLE DIAMETER:            | φ 1.5 MM                  |

| ITEM NO.    | POLES | A (MM) | A (INCH) | ITEM NO.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|-------------|-------|--------|----------|
| H-040-50002 | 2     | 11.60  | 0.457    | H-040-50009 | 9     | 46.60  | 1.835    |
| H-040-50003 | 3     | 16.60  | 0.654    | H-040-50010 | 10    | 51.60  | 2.031    |
| H-040-50004 | 4     | 21.60  | 0.850    | H-040-50011 | 11    | 56.60  | 2.228    |
| H-040-50005 | 5     | 26.60  | 1.047    | H-040-50012 | 12    | 61.60  | 2.425    |
| H-040-50006 | 6     | 31.60  | 1.244    |             |       |        |          |
| H-040-50007 | 7     | 36.60  | 1.441    | H-040-50016 | 16    | 121.60 | 4.787    |
| H-040-50008 | 8     | 41.60  | 1.638    |             |       |        |          |

### HEADERS • CLOSED 180° • PITCH: 5.08 MM



#### TECHNICAL

|                               |                           |
|-------------------------------|---------------------------|
| SOLDER PIN:                   | 1.0 MM, BRASS, TIN PLATED |
| INSULATING BODY:              | POLYAMIDE66 (UL94V-0)     |
| COLOR:                        | GREEN                     |
| OPERATION TEMPERATURE:        | -55°C TO +105°C           |
| SHORT-TIME TEMPERATURE:       | UP TO 250°C (+482°F)      |
| CURRENT RATING:               | 12 AMP AC300V             |
| INSULATION WITHSTANDING VOLT: | AC2000V MIN               |
| INSULATION RESISTANCE:        | >5000Ω AT DC500V          |
| PDB HOLE DIAMETER:            | φ 1.5 MM                  |

| ITEM NO.    | POLES | A (MM) | A (INCH) | ITEM NO.    | POLES | A (MM) | A (INCH) |
|-------------|-------|--------|----------|-------------|-------|--------|----------|
| H-040-50802 | 2     | 11.76  | 0.463    | H-040-50809 | 9     | 47.32  | 1.863    |
| H-040-50803 | 3     | 16.84  | 0.663    | H-040-50810 | 10    | 52.40  | 2.063    |
| H-040-50804 | 4     | 21.92  | 0.863    | H-040-50811 | 11    | 57.48  | 2.263    |
| H-040-50805 | 5     | 27.00  | 1.063    | H-040-50812 | 12    | 62.56  | 2.463    |
| H-040-50806 | 6     | 32.08  | 1.263    |             |       |        |          |
| H-040-50807 | 7     | 37.16  | 1.463    | H-040-50816 | 16    | 123.52 | 4.863    |
| H-040-50808 | 8     | 42.24  | 1.663    |             |       |        |          |



## SCREWDRIVERS

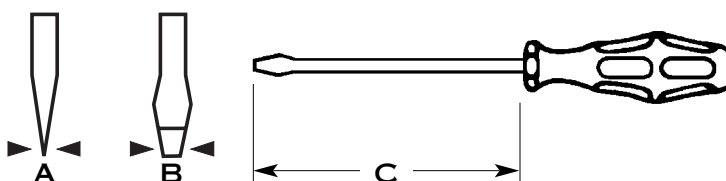
THE ERGONOMIC DESIGN OF OUR SCREWDRIVER HANDLES EFFICIENTLY PROVIDES THE PROPER TIGHTENING TORQUE FOR YOUR TERMINAL BLOCK APPLICATION. INSULATION IS RATED AT 10,000V FOR YOUR SAFETY. THE TIPS OF OUR SCREWDRIVERS ARE MADE OF HARDENED STEEL FOR A LONGER TOOL LIFE.



## SCREWDRIVERS FOR TERMINAL BLOCKS

### FEATURES

- ERGONOMIC HANDLE PROVIDES PROPER TIGHTENING TORQUE
- IMPACT RESISTANT MATERIAL USED TO PROVIDE LONG LASTING USE
- INSULATION SLEEVE PROVIDES ISOLATION UP TO 10,000 V
- APPROVALS: DIN - VDE 0680/2, ISO, IEC 900, EN 60900



| DESCRIPTION                            | PART NO.                                                     | A (MM) | B (MM) | C (MM) |
|----------------------------------------|--------------------------------------------------------------|--------|--------|--------|
| INSULATED SCREWDRIVERS                 | W900837                                                      | 0.4    | 2.5    | 80     |
|                                        | W900838                                                      | 0.5    | 3.0    | 100    |
|                                        | W900839                                                      | 0.6    | 3.5    | 100    |
|                                        | W900840                                                      | 0.8    | 4.0    | 100    |
|                                        | W900841                                                      | 1.0    | 5.5    | 125    |
| KIT FOR INSULATED SCREWDRIVERS (3)     | W900844<br>(INCLUDES ONE OF EACH: W900838, W900839, W900840) |        |        |        |
| NON-INSULATED SCREWDRIVERS             | W900832                                                      | 0.5    | 3.0    | 80     |
|                                        | W900833                                                      | 0.6    | 3.5    | 100    |
|                                        | W900834                                                      | 0.8    | 4.0    | 100    |
| KIT FOR NON-INSULATED SCREWDRIVERS (3) | W900836<br>(INCLUDES ONE OF EACH: W900832, W900833, W900834) |        |        |        |
| INSULATED PHILLIPS SCREWDRIVER         | W900858 (100 MM)                                             |        |        |        |
| NON-INSULATED PHILLIPS SCREWDRIVER     | W900857 (80 MM)                                              |        |        |        |



## INDEX

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