

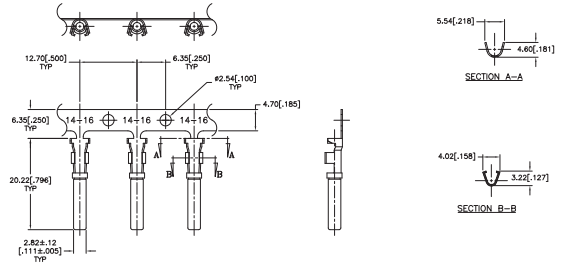
## STAMPED AND FORMED CONTACTS, PG 1 of 2

Click on blue underlined part numbers to be taken to their spec sheets.

### OPTIONS

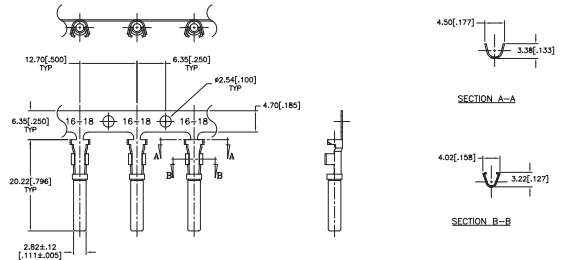
**PART NUMBER:** AT62-14-01XX  
**DESCRIPTION:** CONTACT, SOCKET, STAMPED, SIZE 16

**MATERIAL:**  
 CONTACT BODY: COPPER ALLOY  
 HOOD: STAINLESS STEEL  
**PLATING SUFFIX CODE:**  
 XX=22 NICKEL PLATING  
 XX=44 GOLD PLATING  
**CONTACT GENERAL DATA SPECIFICATION:** S2-15217  
**AVAILABLE CRIMPERS:** ATT-16-00, MFX-3950 & MFX-3953  
**CRIMPER SPECIFICATIONS:** S2-15223 & S2-15224  
**CRIMP INFORMATION DRAWING:** S2-15221 & S2-15222  
**CONTACTS PER REEL:** APPROX. 4000 (PARTIAL REELS AVAILABLE)



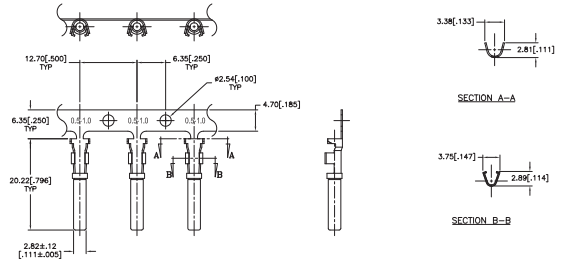
**PART NUMBER:** AT62-16-01XX  
**DESCRIPTION:** CONTACT, SOCKET, STAMPED, SIZE 16

**MATERIAL:**  
 CONTACT BODY: COPPER ALLOY  
 HOOD: STAINLESS STEEL  
**PLATING SUFFIX CODE:**  
 XX=22 NICKEL PLATING  
 XX=44 GOLD PLATING  
**CONTACT GENERAL DATA SPECIFICATION:** S2-15217  
**AVAILABLE CRIMPERS:** ATT-16-00, ATT-16-01, MFX-3950 & MFX-3953  
**CRIMPER SPECIFICATIONS:** S2-15223 & S2-15224  
**CRIMP INFORMATION DRAWING:** S2-15221 & S2-15222  
**CONTACTS PER REEL:** APPROX. 4000 (PARTIAL REELS AVAILABLE)



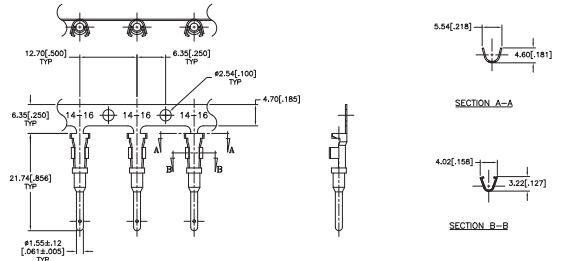
**PART NUMBER:** AT62-16-06XX  
**DESCRIPTION:** CONTACT, SOCKET, STAMPED, SIZE 16

**MATERIAL:**  
 CONTACT BODY: COPPER ALLOY  
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**PLATING SUFFIX CODE:**  
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**CONTACT GENERAL DATA SPECIFICATION:** S2-15217  
**AVAILABLE CRIMPERS:** ATT-16-01, MFX-3950 & MFX-3953  
**CRIMPER SPECIFICATIONS:** S2-15223 & S2-15224  
**CRIMP INFORMATION DRAWING:** S2-15221 & S2-15222  
**CONTACTS PER REEL:** APPROX. 4000 (PARTIAL REELS AVAILABLE)



**PART NUMBER:** AT60-14-01XX  
**DESCRIPTION:** CONTACT, PIN, STAMPED, SIZE 16

**MATERIAL:** COPPER ALLOY  
**PLATING SUFFIX CODE:**  
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 XX=44 GOLD PLATING  
**CONTACT GENERAL DATA SPECIFICATION:** S2-15217  
**AVAILABLE CRIMPERS:** ATT-16-00, MFX-3950 & MFX-3953  
**CRIMPER SPECIFICATIONS:** S2-15223 & S2-15224  
**CRIMP INFORMATION DRAWING:** S2-15221 & S2-15222  
**CONTACTS PER REEL:** APPROX. 4000 (PARTIAL REELS AVAILABLE)



## STAMPED AND FORMED CONTACTS, PG 2 of 2

Click on [blue underlined](#) part numbers to be taken to their spec sheets.

### OPTIONS

**PART NUMBER:** AT60-16-01XX

**DESCRIPTION:** CONTACT, PIN, STAMPED, SIZE 16

**MATERIAL:** COPPER ALLOY

**PLATING SUFFIX CODE:**

XX=22 NICKEL PLATING

XX=44 GOLD PLATING

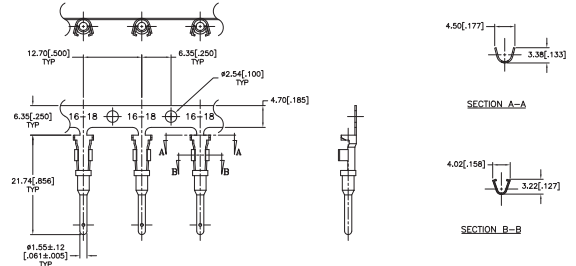
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**AVAILABLE CRIMPERS:** ATT-16-00, ATT-16-01, MFX-3950 & MFX-3953

**CRIMPER SPECIFICATIONS:** S2-15223 & S2-15224

**CRIMP INFORMATION DRAWING:** S2-15221 & S2-15222

**CONTACTS PER REEL:** APPROX. 4000 (PARTIAL REELS AVAILABLE)



**PART NUMBER:** AT60-16-06XX

**DESCRIPTION:** CONTACT, PIN, STAMPED, SIZE 16

**MATERIAL:** COPPER ALLOY

**PLATING SUFFIX CODE:**

XX=22 NICKEL PLATING

XX=44 GOLD PLATING

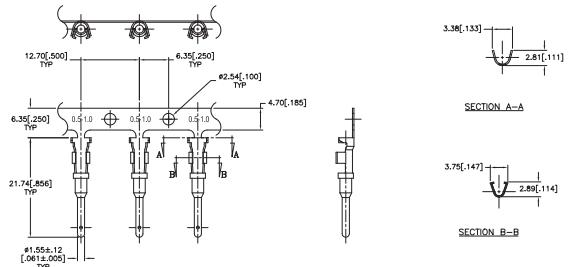
**CONTACT GENERAL DATA SPECIFICATION:** S2-15217

**AVAILABLE CRIMPERS:** ATT-16-01, MFX-3950 & MFX-3953

**CRIMPER SPECIFICATIONS:** S2-15223 & S2-15224

**CRIMP INFORMATION DRAWING:** S2-15221 & S2-15222

**CONTACTS PER REEL:** APPROX. 4000 (PARTIAL REELS AVAILABLE)



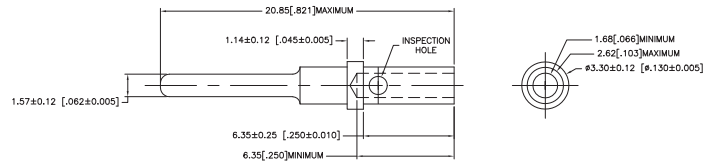
## SOLID/MACHINED CONTACTS

Click on [blue underlined](#) part numbers to be taken to their spec sheets.

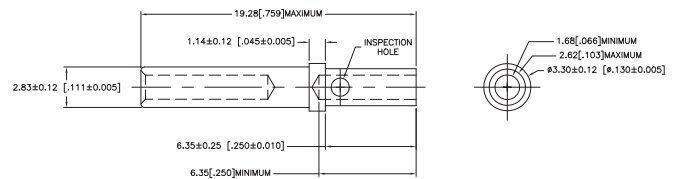
### OPTIONS

#### MILITARY-STYLE

**PART NUMBER:** [AT60-202-16XX](#)  
**DESCRIPTION:** CONTACT, PIN, SOLID MACHINED, SIZE 16  
**MATERIAL:** COPPER ALLOY  
**PLATING SUFFIX CODE:**  
 XX=141 NICKEL PLATING  
 XX=31 GOLD PLATING  
**CONTACT GENERAL DATA SPECIFICATION:** S2-15217  
**AVAILABLE CRIMPERS:** CA-5D12 & CA-5E12  
**CRIMPER SPECIFICATIONS:** S2-15219 & S2-15220  
**CRIMP INFORMATION DRAWING:** S2-15218

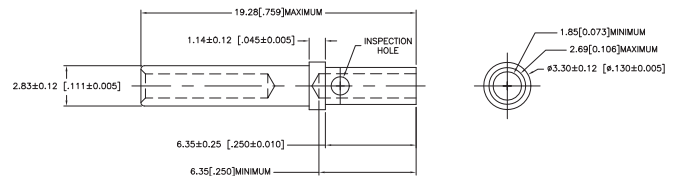


**PART NUMBER:** [AT62-201-16XX](#)  
**DESCRIPTION:** CONTACT, SOCKET, SOLID MACHINED, SIZE 16  
**MATERIAL:**  
 CONTACT BODY: COPPER ALLOY  
 HOOD: STAINLESS STEEL  
**PLATING SUFFIX CODE:**  
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 XX=31 GOLD PLATING  
**CONTACT GENERAL DATA SPECIFICATION:** S2-15217  
**AVAILABLE CRIMPERS:** CA-5D12 & CA-5E12  
**CRIMPER SPECIFICATIONS:** S2-15219 & S2-15220  
**CRIMP INFORMATION DRAWING:** S2-15218

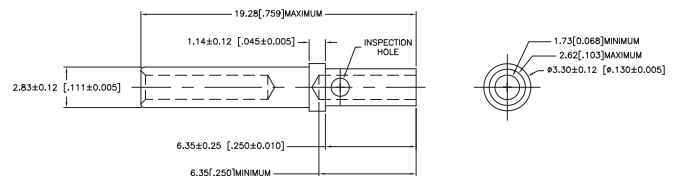


#### ROCKSOLID™ CONTACTS

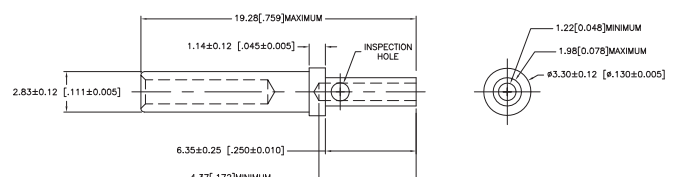
**PART NUMBER:** [65-54942-14](#)  
**DESCRIPTION:** CONTACT, SOCKET, ROCKSOLID, SIZE 16  
**AWG RANGE:** 14AWG  
**MATERIAL:** COPPER ALLOY  
**PLATING:** GOLD  
**CONTACT GENERAL DATA SPECIFICATION:** S2-15217  
**AVAILABLE CRIMPERS:** CA-5D12 & CA-5E12  
**CRIMPER SPECIFICATIONS:** S2-15219 & S2-15220  
**CRIMP INFORMATION DRAWING:** S2-15218



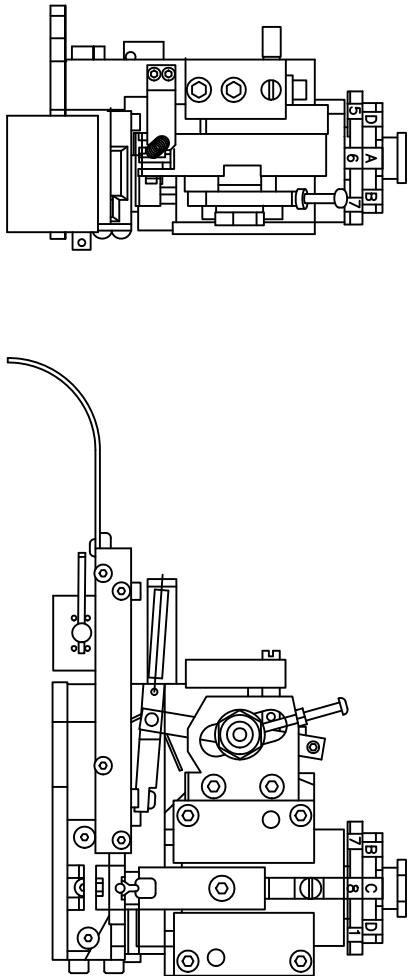
**PART NUMBER:** [65-54942-16](#)  
**DESCRIPTION:** CONTACT, SOCKET, ROCKSOLID, SIZE 16  
**AWG RANGE:** 16AWG  
**MATERIAL:** COPPER ALLOY  
**PLATING:** GOLD  
**CONTACT GENERAL DATA SPECIFICATION:** S2-15217  
**AVAILABLE CRIMPERS:** CA-5D12 & CA-5E12  
**CRIMPER SPECIFICATIONS:** S2-15219 & S2-15220  
**CRIMP INFORMATION DRAWING:** S2-15218



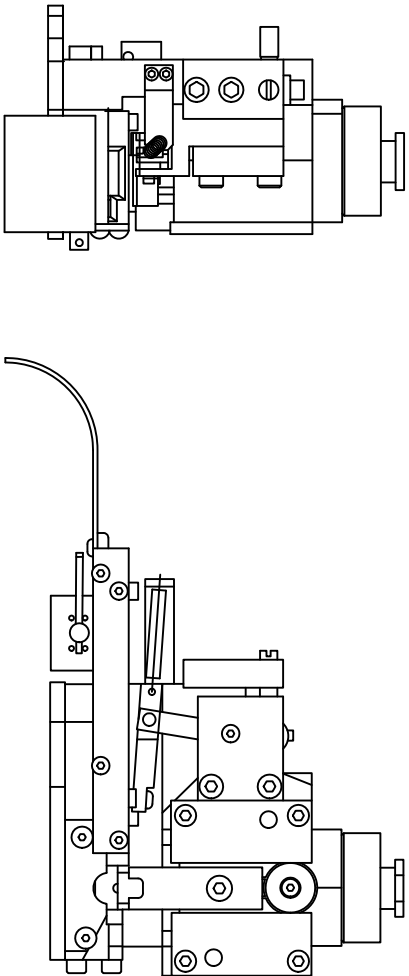
**PART NUMBER:** [65-54942-20](#)  
**DESCRIPTION:** CONTACT, SOCKET, ROCKSOLID, SIZE 16  
**AWG RANGE:** 20AWG  
**MATERIAL:** COPPER ALLOY  
**PLATING:** GOLD  
**CONTACT GENERAL DATA SPECIFICATION:** S2-15217  
**AVAILABLE CRIMPERS:** CA-5D12 & CA-5E12  
**CRIMPER SPECIFICATIONS:** S2-15219 & S2-15220  
**CRIMP INFORMATION DRAWING:** S2-15218



| REVISIONS |        |        |                       |
|-----------|--------|--------|-----------------------|
| REV       | ZONE   | ECO    | DESCRIPTION           |
| A1        | -      | -      | RELEASE NUMBER 016571 |
| DATE      | BY     | APPR   |                       |
| 6/12/09   | B.D.B. | M.R.F. |                       |



|                     |                               |
|---------------------|-------------------------------|
| SINE PART NUMBER    | MFX-3950                      |
| DEUTSCH PART NUMBER | DCT16-02-00                   |
| TYCO PART NUMBER    | 1-3-1385344-1, 2, 3, 4, 5 & 7 |



|                     |               |
|---------------------|---------------|
| SINE PART NUMBER    | MFX-3953      |
| DEUTSCH PART NUMBER | DCT1620-02-00 |

ALL REFERENCES TO DEUTSCH PRODUCTS OR SPECIFICATIONS ARE FOR COMPARISON PURPOSES ONLY, AND REFER TO DEUTSCH INDUSTRIAL PRODUCTS.

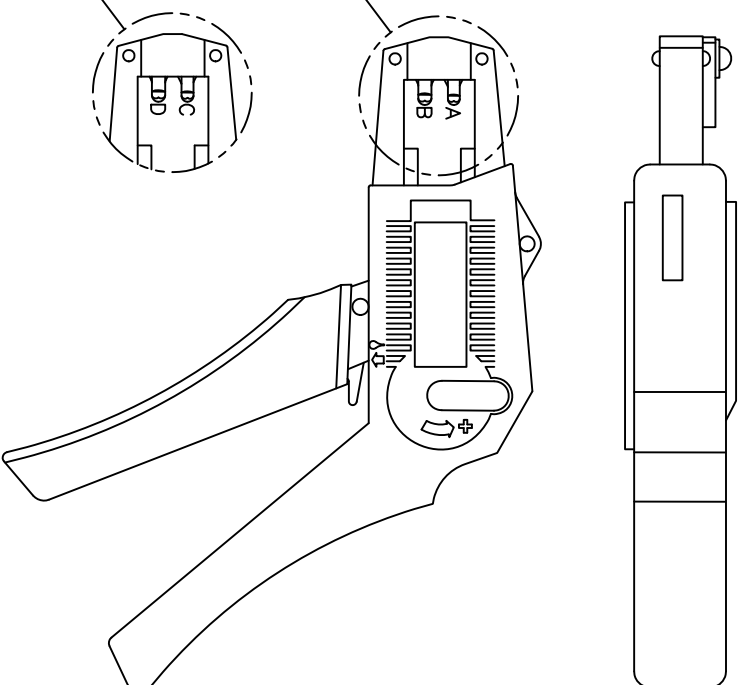
ALL REFERENCES TO TYCO PRODUCTS OR SPECIFICATIONS ARE FOR COMPARISON PURPOSES ONLY, AND REFER TO TYCO ELECTRONICS.

|                                  |             |             |      |
|----------------------------------|-------------|-------------|------|
| QUANTITY                         | PART NUMBER | DESCRIPTION | ITEM |
| MATERIALS LIST                   |             |             |      |
| UNLESS OTHERWISE SPECIFIED       |             |             |      |
| 1) All dimensions are in inches. |             |             |      |
| 2) Tolerances are as follows:    |             |             |      |
| 1. HOLE .001                     |             |             |      |
| 2. HOLE .001                     |             |             |      |
| 3. HOLE .001                     |             |             |      |
| 4. HOLE .001                     |             |             |      |
| 5) Production Standards Per:     |             |             |      |
| a) ASME                          |             |             |      |
| b) ISO                           |             |             |      |
| c) MIL                           |             |             |      |
| d) SAE                           |             |             |      |
| e) UNF                           |             |             |      |
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| ZZ) UNF                          |             |             |      |

## ATT-16-00 WITH CAVITY A &amp; B

| CONTACT P/N: | INSULATION $\phi$ | CAVITY | WIRE SIZE          |
|--------------|-------------------|--------|--------------------|
| AT60-16-01** | PIN .075 - .140   | B      | 1.5mm <sup>2</sup> |
| AT62-16-01** | SOC [1.91 - 3.56] | A      | 16AWG              |
|              |                   | A      | 1.0mm <sup>2</sup> |
| AT60-14-01** | PIN .095 - .150   | B      | 14AWG              |
| AT62-14-01** | SOC [2.41 - 3.81] | B      | 2.0mm <sup>2</sup> |
|              |                   | B      | 1.5mm <sup>2</sup> |
|              |                   | A      | 1.5mm <sup>2</sup> |
|              |                   | A      | 16AWG              |
|              |                   | A      | 1.0mm <sup>2</sup> |
| AT60-16-06** | PIN .055 - .100   | A      | 16AWG              |
| AT62-16-06** | SOC [1.40 - 2.54] | A      | 1.0mm <sup>2</sup> |

CAVITY VIEW OF  
CRIMPER NUMBER  
ATT-16-00



CAVITY VIEW OF  
CRIMPER NUMBER  
ATT-16-01

USE CRIMPER NUMBER:  
ATT-16-01 WITH CAVITY C & D

| CONTACT P/N: | INSULATION $\phi$ | CAVITY | WIRE SIZE          |
|--------------|-------------------|--------|--------------------|
| AT60-16-01** | .075 - .140       | D      | 18AWG              |
| AT62-16-01** | [.1.91 - 3.56]    | D      | .75mm <sup>2</sup> |
| AT60-16-06** | .055 - .100       | D      | 18AWG              |
| AT62-16-06** | [1.40 - 2.54]     | D      | .75mm <sup>2</sup> |
|              |                   | C      | .50mm <sup>2</sup> |

NOTES (UNLESS OTHERWISE SPECIFIED):

1. ALL DIMENSIONS IN INCHES [MILLIMETERS]
2. FOR PLATING CODES \*\* SEE CONTACT DATA DRAWINGS.
3. THIS TOOL IS FOR CRIMPING SIZE 16 CONTACTS ONLY TO WIRES LISTED IN THE CHARTS.
4. DEUTSCH IPD CROSS REFERENCE PART NUMBERS ARE DTT-16-00 AND DTT-16-01.

| REVISIONS |     |                       |         |                  |
|-----------|-----|-----------------------|---------|------------------|
| REV       | ECO | DESCRIPTION           | DATE    | BY               |
| A1        | -   | RELEASE NUMBER 016571 | 6/12/09 | B.D.B.<br>M.R.F. |

| QUANTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | PART NUMBER | DESCRIPTION | UNIT |
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| MATERIALS LIST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |             |             |      |
| UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |             |             |      |
| 1) All dimensions are in inches.<br>2) Tolerances are as follows:<br>1/4" DEC. ±0.005<br>1/2" DEC. ±0.005<br>3/4" DEC. ±0.005<br>1" DEC. ±0.005<br>1 1/2" DEC. ±0.005<br>2" DEC. ±0.005<br>3" DEC. ±0.005<br>4" DEC. ±0.005<br>5" DEC. ±0.005<br>6" DEC. ±0.005<br>7" DEC. ±0.005<br>8" DEC. ±0.005<br>9" DEC. ±0.005<br>10" DEC. ±0.005<br>11" DEC. ±0.005<br>12" DEC. ±0.005<br>13" DEC. ±0.005<br>14" DEC. ±0.005<br>15" DEC. ±0.005<br>16" DEC. ±0.005<br>17" DEC. ±0.005<br>18" DEC. ±0.005<br>19" DEC. ±0.005<br>20" DEC. ±0.005<br>21" DEC. ±0.005<br>22" DEC. ±0.005<br>23" DEC. ±0.005<br>24" DEC. ±0.005<br>25" DEC. ±0.005<br>26" DEC. ±0.005<br>27" DEC. ±0.005<br>28" DEC. ±0.005<br>29" DEC. ±0.005<br>30" DEC. ±0.005<br>31" DEC. ±0.005<br>32" DEC. ±0.005<br>33" DEC. ±0.005<br>34" DEC. ±0.005<br>35" DEC. ±0.005<br>36" DEC. ±0.005<br>37" DEC. ±0.005<br>38" DEC. ±0.005<br>39" DEC. ±0.005<br>40" DEC. ±0.005<br>41" DEC. ±0.005<br>42" DEC. ±0.005<br>43" DEC. ±0.005<br>44" DEC. ±0.005<br>45" DEC. ±0.005<br>46" DEC. ±0.005<br>47" DEC. ±0.005<br>48" DEC. ±0.005<br>49" DEC. ±0.005<br>50" DEC. ±0.005<br>51" DEC. ±0.005<br>52" DEC. ±0.005<br>53" DEC. ±0.005<br>54" DEC. ±0.005<br>55" DEC. ±0.005<br>56" DEC. ±0.005<br>57" DEC. ±0.005<br>58" DEC. ±0.005<br>59" DEC. ±0.005<br>60" DEC. ±0.005<br>61" DEC. ±0.005<br>62" DEC. ±0.005<br>63" DEC. ±0.005<br>64" DEC. ±0.005<br>65" DEC. ±0.005<br>66" DEC. ±0.005<br>67" DEC. ±0.005<br>68" DEC. ±0.005<br>69" DEC. ±0.005<br>70" DEC. ±0.005<br>71" DEC. ±0.005<br>72" DEC. ±0.005<br>73" DEC. ±0.005<br>74" DEC. ±0.005<br>75" DEC. ±0.005<br>76" DEC. ±0.005<br>77" DEC. ±0.005<br>78" DEC. ±0.005<br>79" DEC. ±0.005<br>80" DEC. ±0.005<br>81" DEC. ±0.005<br>82" DEC. ±0.005<br>83" DEC. ±0.005<br>84" DEC. ±0.005<br>85" DEC. ±0.005<br>86" DEC. ±0.005<br>87" DEC. ±0.005<br>88" DEC. ±0.005<br>89" DEC. ±0.005<br>90" DEC. ±0.005<br>91" DEC. ±0.005<br>92" DEC. ±0.005<br>93" DEC. ±0.005<br>94" DEC. ±0.005<br>95" DEC. ±0.005<br>96" DEC. ±0.005<br>97" DEC. ±0.005<br>98" DEC. ±0.005<br>99" DEC. ±0.005<br>100" DEC. ±0.005<br>101" DEC. ±0.005<br>102" DEC. ±0.005<br>103" DEC. ±0.005<br>104" DEC. ±0.005<br>105" DEC. ±0.005<br>106" DEC. ±0.005<br>107" DEC. ±0.005<br>108" DEC. ±0.005<br>109" DEC. ±0.005<br>110" DEC. ±0.005<br>111" DEC. ±0.005<br>112" DEC. ±0.005<br>113" DEC. ±0.005<br>114" DEC. ±0.005<br>115" DEC. ±0.005<br>116" DEC. ±0.005<br>117" DEC. ±0.005<br>118" DEC. ±0.005<br>119" DEC. ±0.005<br>120" DEC. ±0.005<br>121" DEC. ±0.005<br>122" DEC. ±0.005<br>123" DEC. ±0.005<br>124" DEC. ±0.005<br>125" DEC. ±0.005<br>126" DEC. ±0.005<br>127" DEC. ±0.005<br>128" DEC. ±0.005<br>129" DEC. ±0.005<br>130" DEC. ±0.005<br>131" DEC. ±0.005<br>132" DEC. ±0.005<br>133" DEC. ±0.005<br>134" DEC. ±0.005<br>135" DEC. ±0.005<br>136" DEC. ±0.005<br>137" DEC. ±0.005<br>138" DEC. ±0.005<br>139" DEC. ±0.005<br>140" DEC. ±0.005<br>141" DEC. ±0.005<br>142" DEC. ±0.005<br>143" DEC. ±0.005<br>144" DEC. ±0.005<br>145" DEC. ±0.005<br>146" DEC. ±0.005<br>147" DEC. ±0.005<br>148" DEC. ±0.005<br>149" DEC. ±0.005<br>150" DEC. ±0.005<br>151" DEC. ±0.005<br>152" DEC. ±0.005<br>153" DEC. ±0.005<br>154" DEC. ±0.005<br>155" DEC. ±0.005<br>156" DEC. ±0.005<br>157" DEC. ±0.005<br>158" DEC. ±0.005<br>159" DEC. ±0.005<br>160" DEC. ±0.005<br>161" DEC. ±0.005<br>162" DEC. ±0.005<br>163" DEC. ±0.005<br>164" DEC. ±0.005<br>165" DEC. ±0.005<br>166" DEC. ±0.005<br>167" DEC. ±0.005<br>168" DEC. ±0.005<br>169" DEC. ±0.005<br>170" DEC. ±0.005<br>171" DEC. ±0.005<br>172" DEC. ±0.005<br>173" DEC. ±0.005<br>174" DEC. ±0.005<br>175" DEC. ±0.005<br>176" DEC. ±0.005<br>177" DEC. ±0.005<br>178" DEC. ±0.005<br>179" DEC. ±0.005<br>180" DEC. ±0.005<br>181" DEC. ±0.005<br>182" DEC. ±0.005<br>183" DEC. ±0.005<br>184" DEC. ±0.005<br>185" DEC. ±0.005<br>186" DEC. ±0.005<br>187" DEC. ±0.005<br>188" DEC. ±0.005<br>189" DEC. ±0.005<br>190" DEC. ±0.005<br>191" DEC. ±0.005<br>192" DEC. ±0.005<br>193" DEC. ±0.005<br>194" DEC. ±0.005<br>195" DEC. ±0.005<br>196" DEC. ±0.005<br>197" DEC. ±0.005<br>198" DEC. ±0.005<br>199" DEC. ±0.005<br>200" DEC. ±0.005<br>201" DEC. ±0.005<br>202" DEC. ±0.005<br>203" DEC. ±0.005<br>204" DEC. ±0.005<br>205" DEC. ±0.005<br>206" DEC. ±0.005<br>207" DEC. ±0.005<br>208" DEC. ±0.005<br>209" DEC. ±0.005<br>210" DEC. ±0.005<br>211" DEC. ±0.005<br>212" DEC. ±0.005<br>213" DEC. ±0.005<br>214" DEC. ±0.005<br>215" DEC. ±0.005<br>216" DEC. ±0.005<br>217" DEC. ±0.005<br>218" DEC. ±0.005<br>219" DEC. ±0.005<br>220" DEC. ±0.005<br>221" DEC. ±0.005<br>222" DEC. ±0.005<br>223" DEC. ±0.005<br>224" DEC. ±0.005<br>225" DEC. ±0.005<br>226" DEC. ±0.005<br>227" DEC. ±0.005<br>228" DEC. ±0.005<br>229" DEC. ±0.005<br>230" DEC. ±0.005<br>231" DEC. ±0.005<br>232" DEC. ±0.005<br>233" DEC. ±0.005<br>234" DEC. ±0.005<br>235" DEC. ±0.005<br>236" DEC. ±0.005<br> |  |             |             |      |

ALL REFERENCES TO DEUTSCH PRODUCTS OR SPECIFICATIONS ARE FOR COMPARISON PURPOSES ONLY, AND REFER TO DEUTSCH INDUSTRIAL PRODUCTS.

| REVISIONS |        |     |                       |         |
|-----------|--------|-----|-----------------------|---------|
| REV       | ZONE   | ECO | DESCRIPTION           | DATE    |
| A1        | -      | -   | RELEASE NUMBER 016571 | 6/12/09 |
| BY        | APP    |     |                       |         |
| B.D.B.    | M.F.F. |     |                       |         |

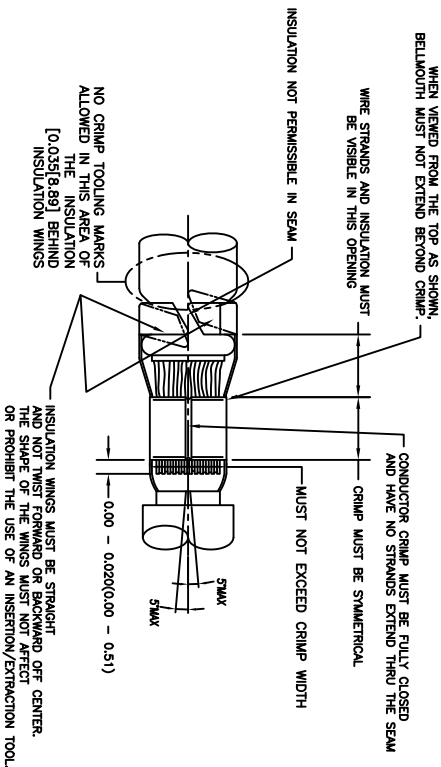
| STAMPED CONTACT PART NUMBER 1005=PIN 1006=SOCKET                  | SIZE | CONDUCTOR WIRE SIZE | CRIMP HEIGHT | CRIMP WIDTH | CONDUCTOR PUNCH NUMBER | CONDUCTOR ANVIL NUMBER | CRIMP TENSILE REFERENCE |
|-------------------------------------------------------------------|------|---------------------|--------------|-------------|------------------------|------------------------|-------------------------|
| A780-14-011x A782-14-011x INSULATION RANGE 0.095-0.150(2.11-3.81) | 16   | 14 AWG              | 0.055(1.40)  | 0.094(2.39) | A177-002-0200          | A177-101-0200          | 28(111)                 |
|                                                                   |      | 2.00mm <sup>2</sup> | 0.055(1.40)  | 0.094(2.39) |                        |                        |                         |
|                                                                   |      | 1.50mm <sup>2</sup> | 0.055(1.35)  | 0.094(2.39) |                        |                        |                         |
|                                                                   |      | 16 AWG              | 0.050(1.27)  | 0.094(2.39) |                        |                        |                         |
|                                                                   |      | 1.00mm <sup>2</sup> | 0.050(1.27)  | 0.094(2.39) |                        |                        |                         |
| A780-16-011x A782-16-011x INSULATION RANGE 0.075-0.140(1.91-3.56) | 16   | 18 AWG              | 0.048(1.22)  | 0.094(2.39) | A177-002-0200          | A177-101-0200          | 28(111)                 |
|                                                                   |      | 0.75mm <sup>2</sup> | 0.048(1.22)  | 0.094(2.39) |                        |                        |                         |
|                                                                   |      | 14 AWG              | 0.055(1.40)  | 0.094(2.39) |                        |                        |                         |
|                                                                   |      | 2.00mm <sup>2</sup> | 0.055(1.40)  | 0.094(2.39) |                        |                        |                         |
|                                                                   |      | 1.50mm <sup>2</sup> | 0.053(1.35)  | 0.094(2.39) |                        |                        |                         |
| A782-16-06x A782-16-06x INSULATION RANGE 0.055-0.100(1.40-2.54)   | 16   | 18 AWG              | 0.048(1.22)  | 0.094(2.39) | A177-003-0200          | A177-103-0200          | 28(111)                 |
|                                                                   |      | 1.00mm <sup>2</sup> | 0.050(1.27)  | 0.094(2.39) |                        |                        |                         |
|                                                                   |      | 16 AWG              | 0.050(1.27)  | 0.094(2.39) |                        |                        |                         |
|                                                                   |      | 18 AWG              | 0.048(1.24)  | 0.094(2.39) |                        |                        |                         |
|                                                                   |      | 0.75mm <sup>2</sup> | 0.048(1.22)  | 0.094(2.39) |                        |                        |                         |

CROSS REFERENCE

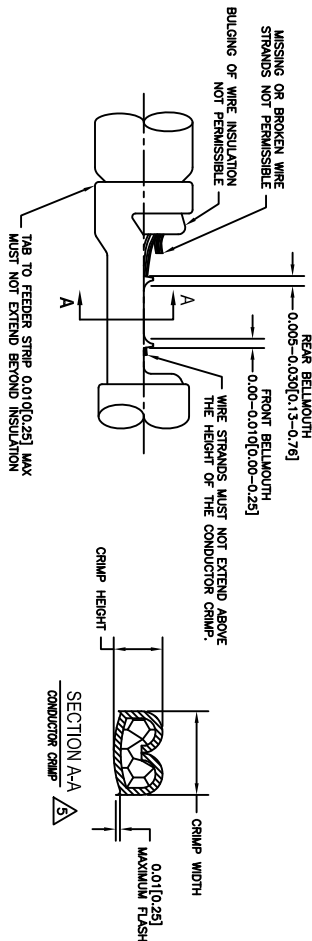
| INSULATION DIAMETER RANGE | INSULATION PUNCH NUMBER | INSULATION ANVIL NUMBER |
|---------------------------|-------------------------|-------------------------|
| 0.120-0.150               | A177-210-0200           | A177-316-0200           |
| 0.105-0.125               | A177-211-0200           | A177-317-0200           |
| 0.085-0.111               | A177-213-0200           | A177-318-0200           |
| 0.075-0.105               | A177-214-0200           | A177-319-0200           |
| 0.065-0.094               | A177-215-0200           | A177-320-0200           |
| 0.050-0.075               | A177-216-0200           | A177-321-0200           |

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS ARE IN INCHES(mm).
2. FORCES ARE IN POUNDS(LBS) AND NEWTONS(N).
3. "X"= PLATING SUFFX. SEE INDIVIDUAL CONTACT DRAWING.
4. WIRE STRIP LENGTH: 0.175±0.029(4.43±0.64). BROKEN OR MISSING CONDUCTOR STRANDS ARE NOT ACCEPTABLE.
5. USE A BLADE MICROMETER (0.0002-54) MIN SPINDLE AND 0.060(0.010)(1.50(0.040) ANVIL) TO MEASURE THE CONDUCTOR CRIMP. SEE SECTION AA.
6. CRIMP TENSILE STRENGTH IS DETERMINED AT A PULL RATE SPEED OF 1.00 INCH(25.4) PER MINUTE. INSULATION WINGS ARE REMOVED FOR TEST. ACTUAL CRIMP TENSILE STRENGTH DEPENDS ON WIRE/CONDUCTOR SIZE. VALUES ON THIS SPECIFICATION ARE FOR REFERENCE ONLY.
7. INSULATION DIAMETER RANGE IS DETERMINED BY CONNECTOR AND ITS WIRE SEAL SIZE. SEE CONNECTOR DRAWING FOR INSULATION RANGE.
8. INSULATION CRIMP DIAMETER SHOULD BE THE EQUAL OR LESS THAN THE DIAMETER OF THE WIRE INSULATION (HARD OR TEFLON INSULATION MAY BE AN EXCEPTION). INSULATION CRIMP SHALL NOT AFFECT REMOVAL TOOL PERFORMANCE AND SHALL NOT DAMAGE CONNECTOR CROMMET SEAL.
9. CONDUCTOR TYPE ARE PER SAE J128(AWG) AND ISO 6722(METRIC)
10. FOR CONTACT MATERIAL AND PERFORMANCE DATA, SEE DRAWING S2-15217.
11. REFER TO S2-15223 AND S2-15224 AND CROSS REFERENCE CHARTS FOR CRIMP TOOL DATA.



| SINE PART NUMBER | DEUTSCH PART NUMBER |
|------------------|---------------------|
| MFX-3950         | DC16-02-00          |
| A177-002-0200    | 1017-002-0200       |
| A177-003-0200    | 1017-003-0200       |
| A177-101-0200    | 1017-101-0200       |
| A177-103-0200    | 1017-103-0200       |
| A177-210-0200    | 1017-210-0200       |
| A177-211-0200    | 1017-211-0200       |
| A177-213-0200    | 1017-213-0200       |
| A177-214-0200    | 1017-214-0200       |
| A177-217-0200    | 1017-217-0200       |
| A177-218-0200    | 1017-218-0200       |
| A177-310-0200    | 1017-310-0200       |
| A177-311-0200    | 1017-311-0200       |
| A177-313-0200    | 1017-313-0200       |
| A177-304-0200    | 1017-304-0200       |
| A177-317-0200    | 1017-317-0200       |
| A177-318-0200    | 1017-318-0200       |



ALL REFERENCES TO DEUTSCH PRODUCTS OR SPECIFICATIONS ARE FOR COMPARISON PURPOSES ONLY, AND REFER TO DEUTSCH INDUSTRIAL PRODUCTS.

| PART NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| MATERIALS LIST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| 1) All dimensions are in inches.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| APPROVAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| CUSTOMER:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| THE USE OF THIS DOCUMENT IS SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE MINIMUM REQUIREMENTS. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. ANY DIMENSIONS NOT SHOWN ON THIS DOCUMENT ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. ANY DIMENSIONS NOT SHOWN ON THIS DOCUMENT ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. ANY DIMENSIONS NOT SHOWN ON THIS DOCUMENT ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. ANY DIMENSIONS NOT SHOWN ON THIS DOCUMENT ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. ANY DIMENSIONS NOT SHOWN ON THIS DOCUMENT ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. ANY DIMENSIONS NOT SHOWN ON THIS DOCUMENT ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. ANY DIMENSIONS NOT SHOWN ON THIS DOCUMENT ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. ANY DIMENSIONS NOT SHOWN ON THIS DOCUMENT ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. ANY DIMENSIONS NOT SHOWN ON THIS DOCUMENT ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. 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| REVISIONS |        |     |                       |         |
|-----------|--------|-----|-----------------------|---------|
| REV       | ZONE   | ECO | DESCRIPTION           | DATE    |
| A1        | -      | -   | RELEASE NUMBER 016571 | 6/12/09 |
| BY        | APP    |     |                       |         |
| B.D.B.    | M.F.F. |     |                       |         |

| STAMPED CONTACT PART NUMBER 1000=PIN 1000=SOCKET                        | SIZE                | CRIMP HEIGHT | CRIMP WIDTH | CONDUCTOR PUNCH NUMBER | CONDUCTOR ANVIL NUMBER | CRIMP TENSILE REFERENCE (LBSIN) |
|-------------------------------------------------------------------------|---------------------|--------------|-------------|------------------------|------------------------|---------------------------------|
| A160-14-011x<br>A162-14-011x<br>INSULATION RANGE 0.095-0.150(2.41-3.81) | 14 AWG              | 0.055(1.40)  | 0.094(2.39) |                        |                        |                                 |
|                                                                         | 2.00mm <sup>2</sup> | 0.055(1.40)  | 0.094(2.39) |                        |                        |                                 |
|                                                                         | 1.50mm <sup>2</sup> | 0.053(1.35)  | 0.094(2.39) |                        |                        |                                 |
|                                                                         | 16 AWG              | 0.050(1.27)  | 0.094(2.39) | A117-408-0200          | A117-183-0200          | 25(111)                         |
| A160-16-011x<br>A162-16-011x<br>INSULATION RANGE 0.075-0.140(1.91-3.56) | 16 AWG              | 0.050(1.27)  | 0.094(2.39) |                        |                        |                                 |
|                                                                         | 1.00mm <sup>2</sup> | 0.050(1.27)  | 0.094(2.39) |                        |                        |                                 |
|                                                                         | 18 AWG              | 0.048(1.24)  | 0.094(2.39) |                        |                        |                                 |
|                                                                         | 0.75mm <sup>2</sup> | 0.048(1.22)  | 0.094(2.39) |                        |                        |                                 |
| A160-16-065x<br>A162-16-065x<br>INSULATION RANGE 0.055-0.100(1.40-2.54) | 16 AWG              | 0.050(1.27)  | 0.079(2.01) |                        |                        |                                 |
|                                                                         | 1.00mm <sup>2</sup> | 0.050(1.27)  | 0.079(2.01) |                        |                        |                                 |
|                                                                         | 18 AWG              | 0.048(1.22)  | 0.079(2.01) |                        |                        |                                 |
|                                                                         | 20 AWG              | 0.048(1.22)  | 0.079(2.01) |                        |                        |                                 |

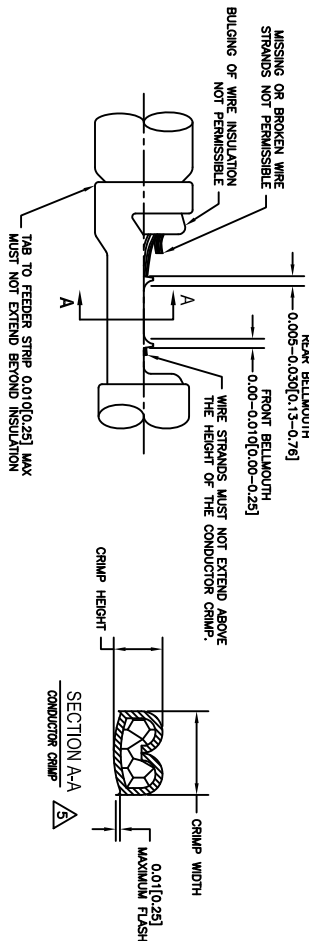
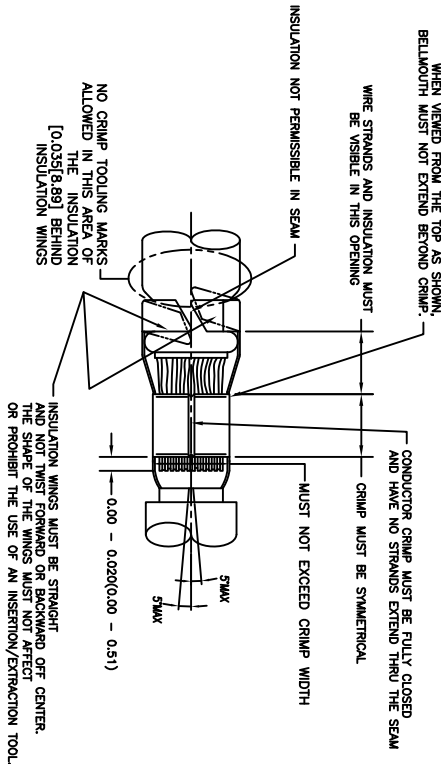
CROSS REFERENCE

| INSULATION DIAMETER RANGE | INSULATION PUNCH NUMBER | INSULATION ANVIL NUMBER |
|---------------------------|-------------------------|-------------------------|
| 0.120-0.150               | A117-225-0200           | A117-325-0200           |
| 0.105-0.125               | A117-226-0200           | A117-326-0200           |
| 0.085-0.111               | A117-227-0200           | A117-327-0200           |
| 0.075-0.105               | A117-228-0200           | A117-328-0200           |
| 0.063-0.094               | A117-229-0200           | A117-329-0200           |
| 0.050-0.075               | A117-230-0200           | A117-330-0200           |

| SINE PART NUMBER | DEUTSCH PART NUMBER |
|------------------|---------------------|
| MPX-3953         | DCT1620-02-00       |
| A117-083-0200    | 1017-083-0200       |
| A117-082-0200    | 1017-082-0200       |
| A117-183-0200    | 1017-183-0200       |
| A117-182-0200    | 1017-182-0200       |
| A117-225-0200    | 1017-225-0200       |
| A117-226-0200    | 1017-226-0200       |
| A117-227-0200    | 1017-227-0200       |
| A117-228-0200    | 1017-228-0200       |
| A117-229-0200    | 1017-229-0200       |
| A117-230-0200    | 1017-230-0200       |
| A117-325-0200    | 1017-325-0200       |
| A117-326-0200    | 1017-326-0200       |
| A117-327-0200    | 1017-327-0200       |
| A117-328-0200    | 1017-328-0200       |
| A117-329-0200    | 1017-329-0200       |
| A117-330-0200    | 1017-330-0200       |

NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS ARE IN INCHES(mm).
2. FORCES ARE IN POUNDS(LBS) AND NEWTONS(N).
3. "X"= PLATING SUFFX. SEE INDIVIDUAL CONTACT DRAWING.
4. WIRE STRIP LENGTH: 0.175±0.029(4.43±0.64). BROKEN OR MISSING CONDUCTOR STRANDS ARE NOT ACCEPTABLE.
5. USE A BLADE MICROMETER (0.100(2.54) MIN SPINDLE AND 0.060(0.010(1.50(0.040) ANVIL) TO MEASURE THE CONDUCTOR CRIMP. SEE SECTION AA.
6. CRIMP TENSILE STRENGTH IS DETERMINED AT A PULL RATE SPEED OF 1.00 INCH(25.4) PER MINUTE. INSULATION WINGS ARE REMOVED FOR TEST. ACTUAL CRIMP TENSILE STRENGTH DEPENDS ON WIRE/CONDUCTOR SIZE. VALUES ON THIS SPECIFICATION ARE FOR REFERENCE ONLY.
7. INSULATION DIAMETER RANGE IS DETERMINED BY CONNECTOR AND ITS WIRE SEAL SIZE. SEE CONNECTOR DRAWING FOR INSULATION RANGE.
8. INSULATION CRIMP DIAMETER SHOULD BE THE EQUAL OR LESS THAN THE DIAMETER OF THE WIRE INSULATION (HARD OR TEFLON INSULATION MAY BE AN EXCEPTION). INSULATION CRIMP SHALL NOT AFFECT REMOVAL TOOL PERFORMANCE AND SHALL NOT DAMAGE CONNECTOR CROMMET SEAL.
9. CONDUCTOR TYPE ARE PER SAEJ1128(AWG) AND ISO 6122(METRIC)
10. FOR CONTACT MATERIAL AND PERFORMANCE DATA, SEE DRAWING S2-15217.
11. REFER TO S2-15223 AND S2-15224 AND CROSS REFERENCE CHARTS FOR CRIMP TOOL DATA.

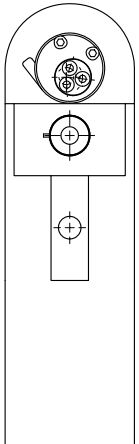


ALL REFERENCES TO DEUTSCH PRODUCTS OR SPECIFICATIONS ARE FOR COMPARISON PURPOSES ONLY, AND REFER TO DEUTSCH INDUSTRIAL PRODUCTS.

| QUANTITY                                                                                               |  | PART NUMBER     |  | DESCRIPTION |  | ITEM |
|--------------------------------------------------------------------------------------------------------|--|-----------------|--|-------------|--|------|
| MATERIALS LIST                                                                                         |  |                 |  |             |  |      |
| UNLESS OTHERWISE SPECIFIED                                                                             |  | SIGNATURES      |  | DATE        |  |      |
| 1) All dimensions are in inches.                                                                       |  | DRAWN: POKR     |  | 4/7/09      |  |      |
| 2) 1/16 DEC 50.00 1/16 Precision 51/16                                                                 |  | CHECKED: POKR   |  | 6/8/09      |  |      |
| 3) 1/32 DEC 50.00 1/32 Precision 51/16                                                                 |  | APPROVED: BERUM |  | 6/8/09      |  |      |
| 4) 1/64 DEC 50.00 1/64 Precision 51/16                                                                 |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 5) 1/128 DEC 50.00 1/128 Precision 51/16                                                               |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 6) 1/256 DEC 50.00 1/256 Precision 51/16                                                               |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 7) 1/512 DEC 50.00 1/512 Precision 51/16                                                               |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 8) 1/1024 DEC 50.00 1/1024 Precision 51/16                                                             |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 9) 1/2048 DEC 50.00 1/2048 Precision 51/16                                                             |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 10) 1/4096 DEC 50.00 1/4096 Precision 51/16                                                            |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 11) 1/8192 DEC 50.00 1/8192 Precision 51/16                                                            |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 12) 1/16384 DEC 50.00 1/16384 Precision 51/16                                                          |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 13) 1/32768 DEC 50.00 1/32768 Precision 51/16                                                          |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 14) 1/65536 DEC 50.00 1/65536 Precision 51/16                                                          |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 15) 1/131072 DEC 50.00 1/131072 Precision 51/16                                                        |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 16) 1/262144 DEC 50.00 1/262144 Precision 51/16                                                        |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 17) 1/524288 DEC 50.00 1/524288 Precision 51/16                                                        |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 18) 1/1048576 DEC 50.00 1/1048576 Precision 51/16                                                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 19) 1/2097152 DEC 50.00 1/2097152 Precision 51/16                                                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 20) 1/4194304 DEC 50.00 1/4194304 Precision 51/16                                                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 21) 1/8388608 DEC 50.00 1/8388608 Precision 51/16                                                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 22) 1/16777216 DEC 50.00 1/16777216 Precision 51/16                                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 23) 1/33554432 DEC 50.00 1/33554432 Precision 51/16                                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 24) 1/67108864 DEC 50.00 1/67108864 Precision 51/16                                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 25) 1/134217728 DEC 50.00 1/134217728 Precision 51/16                                                  |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 26) 1/268435456 DEC 50.00 1/268435456 Precision 51/16                                                  |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 27) 1/536870912 DEC 50.00 1/536870912 Precision 51/16                                                  |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 28) 1/1073741824 DEC 50.00 1/1073741824 Precision 51/16                                                |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 29) 1/2147483648 DEC 50.00 1/2147483648 Precision 51/16                                                |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 30) 1/4294967296 DEC 50.00 1/4294967296 Precision 51/16                                                |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 31) 1/8589934592 DEC 50.00 1/8589934592 Precision 51/16                                                |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 32) 1/17179869184 DEC 50.00 1/17179869184 Precision 51/16                                              |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 33) 1/34359738368 DEC 50.00 1/34359738368 Precision 51/16                                              |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 34) 1/68719476736 DEC 50.00 1/68719476736 Precision 51/16                                              |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 35) 1/137438953472 DEC 50.00 1/137438953472 Precision 51/16                                            |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 36) 1/274877906944 DEC 50.00 1/274877906944 Precision 51/16                                            |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 37) 1/549755813888 DEC 50.00 1/549755813888 Precision 51/16                                            |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 38) 1/1099511627776 DEC 50.00 1/1099511627776 Precision 51/16                                          |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 39) 1/2199023255552 DEC 50.00 1/2199023255552 Precision 51/16                                          |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 40) 1/4398046511104 DEC 50.00 1/4398046511104 Precision 51/16                                          |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 41) 1/8796093022208 DEC 50.00 1/8796093022208 Precision 51/16                                          |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 42) 1/17592186444416 DEC 50.00 1/17592186444416 Precision 51/16                                        |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 43) 1/35184372888832 DEC 50.00 1/35184372888832 Precision 51/16                                        |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 44) 1/70368745777664 DEC 50.00 1/70368745777664 Precision 51/16                                        |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 45) 1/14073749155328 DEC 50.00 1/14073749155328 Precision 51/16                                        |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 46) 1/28147498310656 DEC 50.00 1/28147498310656 Precision 51/16                                        |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 47) 1/56294996621312 DEC 50.00 1/56294996621312 Precision 51/16                                        |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 48) 1/112589993222624 DEC 50.00 1/112589993222624 Precision 51/16                                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 49) 1/225179986445248 DEC 50.00 1/225179986445248 Precision 51/16                                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 50) 1/450359972890496 DEC 50.00 1/450359972890496 Precision 51/16                                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 51) 1/900719945780992 DEC 50.00 1/900719945780992 Precision 51/16                                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 52) 1/1801439891561984 DEC 50.00 1/1801439891561984 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 53) 1/3602879783123968 DEC 50.00 1/3602879783123968 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 54) 1/7205759566247936 DEC 50.00 1/7205759566247936 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 55) 1/1441151913295872 DEC 50.00 1/1441151913295872 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 56) 1/2882303826591744 DEC 50.00 1/2882303826591744 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 57) 1/5764607653183488 DEC 50.00 1/5764607653183488 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 58) 1/1152921530636736 DEC 50.00 1/1152921530636736 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 59) 1/2305843061273472 DEC 50.00 1/2305843061273472 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 60) 1/461168612246144 DEC 50.00 1/461168612246144 Precision 51/16                                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 61) 1/922337224492288 DEC 50.00 1/922337224492288 Precision 51/16                                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 62) 1/1844674488984576 DEC 50.00 1/1844674488984576 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 63) 1/3689348977969152 DEC 50.00 1/3689348977969152 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 64) 1/7378697955938304 DEC 50.00 1/7378697955938304 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 65) 1/1475739511876608 DEC 50.00 1/1475739511876608 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 66) 1/2951479023753216 DEC 50.00 1/2951479023753216 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 67) 1/5902958047506432 DEC 50.00 1/5902958047506432 Precision 51/16                                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 68) 1/11805916095012864 DEC 50.00 1/11805916095012864 Precision 51/16                                  |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 69) 1/23611832190025728 DEC 50.00 1/23611832190025728 Precision 51/16                                  |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 70) 1/47223664380051456 DEC 50.00 1/47223664380051456 Precision 51/16                                  |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 71) 1/94447328760102912 DEC 50.00 1/94447328760102912 Precision 51/16                                  |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 72) 1/188894657520205824 DEC 50.00 1/188894657520205824 Precision 51/16                                |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 73) 1/377789315040411648 DEC 50.00 1/377789315040411648 Precision 51/16                                |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 74) 1/755578630080823296 DEC 50.00 1/755578630080823296 Precision 51/16                                |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 75) 1/1511157260161646592 DEC 50.00 1/1511157260161646592 Precision 51/16                              |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 76) 1/3022314520323293184 DEC 50.00 1/3022314520323293184 Precision 51/16                              |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 77) 1/6044629040646586368 DEC 50.00 1/6044629040646586368 Precision 51/16                              |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 78) 1/12089258081293172736 DEC 50.00 1/12089258081293172736 Precision 51/16                            |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 79) 1/24178516162586345472 DEC 50.00 1/24178516162586345472 Precision 51/16                            |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 80) 1/48357032325172690944 DEC 50.00 1/48357032325172690944 Precision 51/16                            |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 81) 1/96714064650345381888 DEC 50.00 1/96714064650345381888 Precision 51/16                            |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 82) 1/193428129300690763776 DEC 50.00 1/193428129300690763776 Precision 51/16                          |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 83) 1/386856258601381527552 DEC 50.00 1/386856258601381527552 Precision 51/16                          |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 84) 1/773712517202763055104 DEC 50.00 1/773712517202763055104 Precision 51/16                          |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 85) 1/1547425034405526110208 DEC 50.00 1/1547425034405526110208 Precision 51/16                        |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 86) 1/3094850068811052220416 DEC 50.00 1/3094850068811052220416 Precision 51/16                        |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 87) 1/6189700137622104440832 DEC 50.00 1/6189700137622104440832 Precision 51/16                        |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 88) 1/12379400275244208881664 DEC 50.00 1/12379400275244208881664 Precision 51/16                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 89) 1/24758800550488417763328 DEC 50.00 1/24758800550488417763328 Precision 51/16                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 90) 1/49517601100976835526656 DEC 50.00 1/49517601100976835526656 Precision 51/16                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 91) 1/99035202201953671053312 DEC 50.00 1/99035202201953671053312 Precision 51/16                      |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 92) 1/198070404403907342106624 DEC 50.00 1/198070404403907342106624 Precision 51/16                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 93) 1/396140808807814684213248 DEC 50.00 1/396140808807814684213248 Precision 51/16                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 94) 1/792281617615629368426496 DEC 50.00 1/792281617615629368426496 Precision 51/16                    |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 95) 1/1584563235231258736852992 DEC 50.00 1/1584563235231258736852992 Precision 51/16                  |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 96) 1/3169126470462517473705984 DEC 50.00 1/3169126470462517473705984 Precision 51/16                  |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 97) 1/6338252940925034947411968 DEC 50.00 1/6338252940925034947411968 Precision 51/16                  |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 98) 1/12676505881850069894823936 DEC 50.00 1/12676505881850069894823936 Precision 51/16                |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 99) 1/25353011763700139789647872 DEC 50.00 1/25353011763700139789647872 Precision 51/16                |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 100) 1/50706023527400279579295744 DEC 50.00 1/50706023527400279579295744 Precision 51/16               |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 101) 1/101412047054800559158591488 DEC 50.00 1/101412047054800559158591488 Precision 51/16             |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 102) 1/202824094109601118317182976 DEC 50.00 1/202824094109601118317182976 Precision 51/16             |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 103) 1/405648188219202236634365952 DEC 50.00 1/405648188219202236634365952 Precision 51/16             |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 104) 1/811296376438404473268731904 DEC 50.00 1/811296376438404473268731904 Precision 51/16             |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 105) 1/1622592752876808946537463808 DEC 50.00 1/1622592752876808946537463808 Precision 51/16           |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 106) 1/3245185505753617893074927616 DEC 50.00 1/3245185505753617893074927616 Precision 51/16           |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 107) 1/6490371011507235786149855232 DEC 50.00 1/6490371011507235786149855232 Precision 51/16           |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 108) 1/12980742023014471572299710464 DEC 50.00 1/12980742023014471572299710464 Precision 51/16         |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 109) 1/25961484046028943144599420928 DEC 50.00 1/25961484046028943144599420928 Precision 51/16         |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 110) 1/51922968092057886289198841856 DEC 50.00 1/51922968092057886289198841856 Precision 51/16         |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 111) 1/103845936184115772578397683712 DEC 50.00 1/103845936184115772578397683712 Precision 51/16       |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 112) 1/207691872368231545156795367424 DEC 50.00 1/207691872368231545156795367424 Precision 51/16       |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 113) 1/415383744736463090313590734848 DEC 50.00 1/415383744736463090313590734848 Precision 51/16       |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 114) 1/830767489472926180627181469696 DEC 50.00 1/830767489472926180627181469696 Precision 51/16       |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 115) 1/1661534978945852361254362939392 DEC 50.00 1/1661534978945852361254362939392 Precision 51/16     |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 116) 1/3323069957891704722508725878784 DEC 50.00 1/3323069957891704722508725878784 Precision 51/16     |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 117) 1/6646139915783409445017451757568 DEC 50.00 1/6646139915783409445017451757568 Precision 51/16     |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 118) 1/13292279831566818890034903515136 DEC 50.00 1/13292279831566818890034903515136 Precision 51/16   |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 119) 1/26584559663133637780069807030272 DEC 50.00 1/26584559663133637780069807030272 Precision 51/16   |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 120) 1/53169119326267275560139614060544 DEC 50.00 1/53169119326267275560139614060544 Precision 51/16   |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 121) 1/106338238652534551120279228121088 DEC 50.00 1/106338238652534551120279228121088 Precision 51/16 |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 122) 1/212676477305069102240558456242176 DEC 50.00 1/212676477305069102240558456242176 Precision 51/16 |  | CUSTOMER: BERUM |  | 6/8/09      |  |      |
| 123) 1/425352954610138204481116912484352 DEC 50.00 1/425352954610138204481116912484352 Precision 51/16 |  | CUSTOMER: BERUM |  |             |  |      |

| REVISIONS |      |     |                       |         |
|-----------|------|-----|-----------------------|---------|
| REV       | ZONE | ECO | DESCRIPTION           | DATE    |
| A1        | -    | -   | RELEASE NUMBER 016571 | 6/12/09 |
| BY        | DATE | BY  | DATE                  | BY      |
|           |      |     |                       |         |

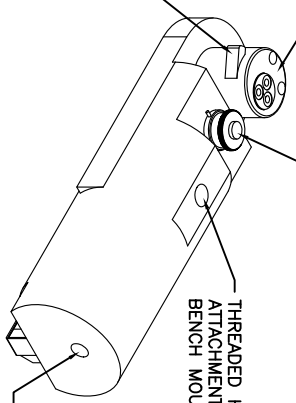
CONTACT LOCATOR "TURRET"  
THREE POSITION FOR SIZE  
12, 16 & 20 MALE AND  
FEMALE CONTACTS



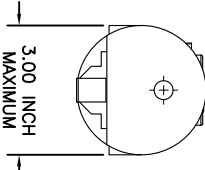
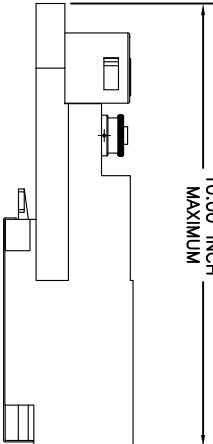
"TURRET"  
RELEASE LATCH

SELECTOR FOR  
CRIMP SETTING

THREADED HOLE FOR  
ATTACHMENT OF  
BENCH MOUNT FIXTURE



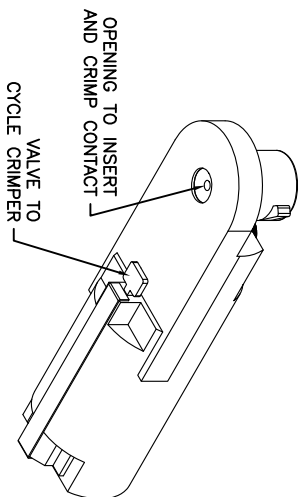
10.00 INCH  
MAXIMUM



THREADED OPENING  
FOR COMPRESSED  
AIR FITTING

NOTES:

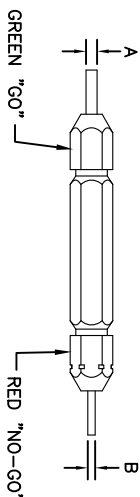
1. THE CA-5E12 IS A COMPRESSED AIR OPERATED HAND CRIMPER FOR ELECTRICAL CONTACTS. IT IS ADJUSTABLE TO 3 CONTACT SIZES (12, 16 & 20) AND 8 INDENTER CRIMP POSITIONS FOR DIFFERENT WIRE SIZES (12AWG THRU 26 AWG).
2. 80-120 PSI COMPRESSED AIR.
3. WEIGHT: 3.1 LBS
4. SELECTING CONTACT SIZE: PRESS THE RELEASE LATCH ON SIDE OF THE CONTACT LOCATOR "TURRET". ROTATE TO THE DESIRED CONTACT SIZE. THE TOP OF THE "TURRET" IS EMBOSSED WITH THE CONTACT SIZES.
5. SELECTING WIRE SIZE: GRASP THE SELECTOR AND ROTATE TO THE DESIRED NUMBER.



| GAGE PART NO. | A GO DIA. | B NO-GO DIA. | SELECTOR NUMBER |
|---------------|-----------|--------------|-----------------|
| G125          | .0390     | .0440        | 4               |

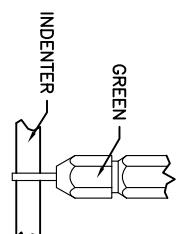
### GAGING INSTRUCTIONS

CAUTION!  
DO NOT CRIMP GAGE!

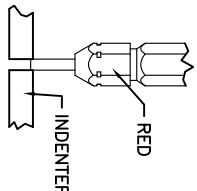


"GO" GAGING: OPERATE TOOL TO FULLY CLOSED POSITION. INSERT "GO" GAGE END AS SHOWN. GAGE MUST PASS FREELY BETWEEN INDENTER TIPS.

"NO-GO" GAGING: OPERATE TOOL TO FULLY CLOSED POSITION. INSERT "NO-GO" GAGE END AS SHOWN. THE "NO-GO" MAY PARTIALLY ENTER THE INDENTER OPENING, BUT MUST NOT PASS COMPLETELY THROUGH THE OPENING.



| SELECTOR NUMBER | A GO DIA. | B NO-GO DIA. |
|-----------------|-----------|--------------|
| 1               | .0280     | .0330        |
| 2               | .0320     | .0370        |
| 3               | .0360     | .0410        |
| 4               | .0390     | .0440        |
| 5               | .0450     | .0500        |
| 6               | .0520     | .0570        |
| 7               | .0590     | .0640        |
| 8               | .0680     | .0730        |



| CONTACT SIZE |                           | SELECTOR NUMBER |    |    |    |    |    |    |    |
|--------------|---------------------------|-----------------|----|----|----|----|----|----|----|
| CONTACT SIZE | LOCATOR "TURRET" POSITION | 26              | 24 | 22 | 20 | 18 | 16 | 14 | 12 |
| 20-20        | RED                       | 1               | 2  | 3  | 4  |    |    |    |    |
| 16-22        | BLUE                      | 4               | 5  | 6  |    |    |    |    |    |
| 16-20        | BLUE                      | 1               | 2  | 3  | 4  |    |    |    |    |
| 16-16        | BLUE                      |                 |    |    | 4  | 5  | 6  |    |    |
| 12-16        | YELLOW                    |                 |    |    | 4  | 5  | 6  |    |    |
| 12-12        | YELLOW                    |                 |    |    |    |    | 7  | 8  |    |

| QUANTITY                             |  | PART NUMBER |        | DESCRIPTION |  | ITEM |
|--------------------------------------|--|-------------|--------|-------------|--|------|
| MATERIALS LIST                       |  |             |        |             |  |      |
| UNLESS OTHERWISE SPECIFIED           |  | SIGNATURES  |        | DATE        |  |      |
| 1) All dimensions are in inches.     |  | DESIGNER    | REVIEW | 6/2/2009    |  |      |
| 2) Tolerances are as follows:        |  |             |        |             |  |      |
| 3) Holes: .0005 to .0010             |  | CHECKED:    | FORCE  | 6/3/2009    |  |      |
| 4) Threads: .0005 to .0010           |  | DRAWN:      | REVIEW |             |  |      |
| 5) Surface Finish: .0005 to .0010    |  | APPROVAL:   | REVIEW | 6/3/2009    |  |      |
| 6) Hardness: HRC 40-45               |  |             |        |             |  |      |
| 7) Material: Stainless Steel         |  |             |        |             |  |      |
| 8) Heat Treatment: Solution Anneal   |  |             |        |             |  |      |
| 9) Finish: .0005 to .0010            |  |             |        |             |  |      |
| 10) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 11) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 12) Material: Stainless Steel        |  |             |        |             |  |      |
| 13) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 14) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 15) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 16) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 17) Material: Stainless Steel        |  |             |        |             |  |      |
| 18) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 19) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 20) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 21) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 22) Material: Stainless Steel        |  |             |        |             |  |      |
| 23) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 24) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 25) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 26) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 27) Material: Stainless Steel        |  |             |        |             |  |      |
| 28) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 29) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 30) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 31) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 32) Material: Stainless Steel        |  |             |        |             |  |      |
| 33) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 34) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 35) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 36) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 37) Material: Stainless Steel        |  |             |        |             |  |      |
| 38) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 39) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 40) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 41) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 42) Material: Stainless Steel        |  |             |        |             |  |      |
| 43) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 44) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 45) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 46) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 47) Material: Stainless Steel        |  |             |        |             |  |      |
| 48) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 49) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 50) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 51) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 52) Material: Stainless Steel        |  |             |        |             |  |      |
| 53) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 54) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 55) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 56) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 57) Material: Stainless Steel        |  |             |        |             |  |      |
| 58) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 59) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 60) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 61) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 62) Material: Stainless Steel        |  |             |        |             |  |      |
| 63) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 64) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 65) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 66) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 67) Material: Stainless Steel        |  |             |        |             |  |      |
| 68) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 69) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 70) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 71) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 72) Material: Stainless Steel        |  |             |        |             |  |      |
| 73) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 74) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 75) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 76) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 77) Material: Stainless Steel        |  |             |        |             |  |      |
| 78) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 79) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 80) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 81) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 82) Material: Stainless Steel        |  |             |        |             |  |      |
| 83) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 84) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 85) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 86) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 87) Material: Stainless Steel        |  |             |        |             |  |      |
| 88) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 89) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 90) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 91) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 92) Material: Stainless Steel        |  |             |        |             |  |      |
| 93) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 94) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 95) Surface Finish: .0005 to .0010   |  |             |        |             |  |      |
| 96) Hardness: HRC 40-45              |  |             |        |             |  |      |
| 97) Material: Stainless Steel        |  |             |        |             |  |      |
| 98) Heat Treatment: Solution Anneal  |  |             |        |             |  |      |
| 99) Finish: .0005 to .0010           |  |             |        |             |  |      |
| 100) Surface Finish: .0005 to .0010  |  |             |        |             |  |      |
| 101) Hardness: HRC 40-45             |  |             |        |             |  |      |
| 102) Material: Stainless Steel       |  |             |        |             |  |      |
| 103) Heat Treatment: Solution Anneal |  |             |        |             |  |      |
| 104) Finish: .0005 to .0010          |  |             |        |             |  |      |
| 105) Surface Finish: .0005 to .0010  |  |             |        |             |  |      |
| 106) Hardness: HRC 40-45             |  |             |        |             |  |      |
| 107) Material: Stainless Steel       |  |             |        |             |  |      |
| 108) Heat Treatment: Solution Anneal |  |             |        |             |  |      |
| 109) Finish: .0005 to .0010          |  |             |        |             |  |      |
| 110) Surface Finish: .0005 to .0010  |  |             |        |             |  |      |
| 111) Hardness: HRC 40-45             |  |             |        |             |  |      |
| 112) Material: Stainless Steel       |  |             |        |             |  |      |
| 113) Heat Treatment: Solution Anneal |  |             |        |             |  |      |
| 114) Finish: .0005 to .0010          |  |             |        |             |  |      |
| 115) Surface Finish: .0005 to .0010  |  |             |        |             |  |      |
| 116) Hardness: HRC 40-45             |  |             |        |             |  |      |
| 117) Material: Stainless Steel       |  |             |        |             |  |      |
| 118) Heat Treatment: Solution Anneal |  |             |        |             |  |      |
| 119) Finish: .0005 to .0010          |  |             |        |             |  |      |
| 120) Surface Finish: .0005 to .0010  |  |             |        |             |  |      |
| 121) Hardness: HRC 40-45             |  |             |        |             |  |      |



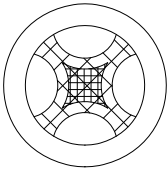
| REVISIONS |        |        |                       |  |
|-----------|--------|--------|-----------------------|--|
| REV       | ZONE   | ECO    | DESCRIPTION           |  |
| 1         |        |        | RELEASE NUMBER 016571 |  |
| DATE      | BY     | APPR   |                       |  |
| 6/12/09   | B.D.B. | M.R.F. |                       |  |

| CONTACT P/N   | SIZE TYPE | WIRE SIZE                    | REF. ONLY TENSILE LBS[N] |
|---------------|-----------|------------------------------|--------------------------|
| AT60-202-16XX | 16PIN     | 1.5mm <sup>2</sup><br>16AWG  | 35[156]                  |
| AT62-201-16XX | 16SOC     | 1.0mm <sup>2</sup><br>18AWG  | 25[111]                  |
| A             |           | 0.75mm <sup>2</sup><br>20AWG | 20[89]                   |
|               |           | 0.50mm <sup>2</sup>          |                          |

| RECOMMENDED STRIP LENGTH |                        |
|--------------------------|------------------------|
| CONTACT SIZE             | STRIP LENGTH INCH[MM]  |
| 16                       | 0.250-0.312[6.35-7.92] |

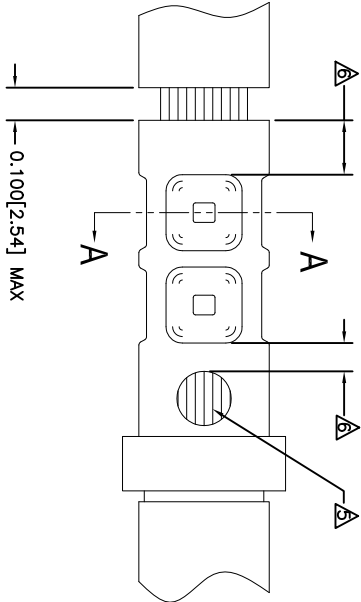
| CRIMP TOOLING |                        |                                   |                      |                  |                      |
|---------------|------------------------|-----------------------------------|----------------------|------------------|----------------------|
| CONTACT SIZE  | CRIMP TOOL PART NUMBER | CONTACT LOCATOR "TURRET" POSITION | WIRE SELECTOR NUMBER | GO GAGE INCH[MM] | "NOGO" GAGE INCH[MM] |
| 16            | CA-5D12<br>CA-5E12     | BLUE                              | 6                    | 0.052[1.32]      | 0.057[1.45]          |
| 16            | CA-5D12<br>CA-5E12     | BLUE                              | 4                    | 0.039[.991]      | 0.044[1.12]          |

- NOTES: UNLESS OTHERWISE SPECIFIED
- MINIMUM +/-0.0005 [0.013] TOLERANCE STEEL GAGE PINS. DO NOT CRIMP GAGE PINS. CLOSE DIE, THEN USE GAGE PINS.
  - WHEN XX=31, CONTACT PLATING IS GOLD WHEN XX=141, CONTACT PLATING IS NICKEL
  - PULL RATE OF 1.0 IN [25.4] PER MINUTE. ACTUAL STRENGTH DEPENDS ON WIRE SIZE.
  - FOR CONTACT PERFORMANCE, MATERIAL SPECIFICATIONS AND APPLICATION DETAILS, SEE DRAWING S2-15217.
  - CONDUCTOR STRANDS MUST BE VISIBLE THRU THE INSPECTION HOLE PRIOR TO CRIMP.
  - PROPER CRIMP TOOLING WILL PRODUCE A CRIMP CENTERED BETWEEN THE INSPECTION HOLE AND CRIMP BARREL END.
  - WIRE SIZES PER SAE J1128 AND J1560 [DIN 72551-6] REFERENCE INSTRUCTION MANUALS S2-15219 AND S2-15220 FOR CA-5D12 AND CA-5E12 HAND AND PNEUMATIC CRIMPER.
  - THE CRIMP HEIGHT DIMENSION AFTER CRIMPING MAY VARY FROM THE VALUES LISTED FOR THE "GO-NOGO" PINS.



SECTION A-A  
CRIMP CROSS-SECTION

0.100[2.54] MAX



| QUANTITY                                             | PART NUMBER | DESCRIPTION | ITEM |
|------------------------------------------------------|-------------|-------------|------|
| MATERIALS LIST                                       |             |             |      |
| UNLESS OTHERWISE SPECIFIED                           |             |             |      |
| 1) All dimensions are in inches.                     |             |             |      |
| 2) Dimensions in parentheses are for reference only. |             |             |      |
| 3) Pl. DEC 16.000 of Provisions 31/14                |             |             |      |
| 4) Pl. DEC 16.000 of Provisions 31/14                |             |             |      |
| 5) Pl. DEC 16.000 of Provisions 31/14                |             |             |      |
| 6) Pl. DEC 16.000 of Provisions 31/14                |             |             |      |
| 7) Pl. DEC 16.000 of Provisions 31/14                |             |             |      |
| 8) Pl. DEC 16.000 of Provisions 31/14                |             |             |      |
| 9) Pl. DEC 16.000 of Provisions 31/14                |             |             |      |
| 10) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 11) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 12) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 13) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 14) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 15) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 16) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 17) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 18) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 19) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 20) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 21) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 22) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 23) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 24) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 25) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 26) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 27) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 28) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 29) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 30) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 31) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 32) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 33) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 34) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 35) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 36) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 37) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 38) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 39) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
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| 41) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 42) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 43) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 44) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
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| 89) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
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| 91) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 92) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 93) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 94) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 95) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 96) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 97) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 98) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 99) Pl. DEC 16.000 of Provisions 31/14               |             |             |      |
| 100) Pl. DEC 16.000 of Provisions 31/14              |             |             |      |

| REVISIONS |        |     |                       |         |
|-----------|--------|-----|-----------------------|---------|
| REV       | ZONE   | ECO | DESCRIPTION           | DATE    |
| A1        | -      | -   | RELEASE NUMBER 016371 | 6/12/09 |
| BY        | APP    |     |                       |         |
| B.D.B.    | M.R.F. |     |                       |         |

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1

| SOLID CONTACT SIZE | SOLID CONTACT PART NUMBERS |               | WIRE SIZE<br>AWG(mm <sup>2</sup> ) | RECOMMENDED<br>STRIP LENGTH<br>INCH (mm) | MIN CONTACT<br>RETENTION<br>LBS (N) | REF CRIMP<br>RETENTION<br>LBS (N) | MAX RATED<br>AMPS@125°C<br>CONTINUOUS |
|--------------------|----------------------------|---------------|------------------------------------|------------------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|
|                    | PN                         | SOCKET        |                                    |                                          |                                     |                                   |                                       |
| 16                 | AT60-202-16**              | AT62-201-16** | 16-20 [1.5-0.5]                    | 0.25-0.31<br>[6.35-7.92]                 | 25 [111]                            | 35-20 [156-89]                    | 13                                    |

| S&F<br>CONTACT<br>SIZE | STAMPED CONTACT PART NUMBERS |              | WIRE SIZE<br>AWG (mm <sup>2</sup> ) | WIRE<br>INSULATION<br>O.D. RANGE | RECOMMENDED<br>STRIP LENGTH<br>INCH (mm) | MIN CONTACT<br>RETENTION<br>LBS (N) | REF CRIMP<br>RETENTION<br>LBS (N) | MAX RATED<br>AMPS@125°C<br>CONTINUOUS |
|------------------------|------------------------------|--------------|-------------------------------------|----------------------------------|------------------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|
|                        | PN                           | SOCKET       |                                     |                                  |                                          |                                     |                                   |                                       |
| 16                     | AT60-14-01**                 | AT62-14-01** | 14-16 [2.0-1.0]                     | .100 - .150 [2.54 - 3.81]        | 0.150-0.200 [3.81-5.08]                  | 25 [111]                            | 25 [111]                          | 13                                    |
| 16                     | AT60-16-01**                 | AT62-16-01** | 16-18 [1.0-0.75]                    | .075 - .100 [1.90 - 2.54]        | 0.150-0.200 [3.81-5.08]                  | 25 [111]                            | 25 [111]                          | 13                                    |
| 16                     | AT60-16-06**                 | AT62-16-06** | 18-20 [0.75-0.50]                   | .055 - .095 [1.40 - 2.41]        | 0.150-0.200 [3.81-5.08]                  | 25 [111]                            | 25-15 [111+67]                    | 13                                    |

MATERIAL SPECIFICATION  
AND PLATING \*\* CODES

| WIRE<br>AWG | TEST<br>CURRENT | MILLIVOLT<br>DROP SOLID | MILLIVOLT<br>DROP S&F |
|-------------|-----------------|-------------------------|-----------------------|
| 14          | 18              | 60                      | 100                   |
| 16          | 13              | 60                      | 100                   |
| 18          | 10              | 60                      | 100                   |
| 20          | 7.5             | 60                      | 100                   |

NOTES: UNLESS OTHERWISE SPECIFIED

- ALL DIMENSIONS ARE INCHES(MM).
  - ALL FORCES ARE IN LBS(POUNDS) AND "N" (NEWTONS).
- CONTACT RETENTION TEST PULL RATE SHALL BE 1.0 INCH(25.4) PER MINUTE MAXIMUM. WIRE SIZE WILL AFFECT THE TRUE STRENGTH OF THE CRIMP.
- WIRE SIZES AND INSULATION RANGES ARE FOR REFERENCE ONLY. THE ACTUAL INSULATION RANGE DEPENDS ON CONNECTOR GROMMET SEALING SIZE.

SEE SPECIFICATIONS LISTED BELOW FOR INDIVIDUAL CRIMP INFORMATION:

| "SOLID" CONTACTS | SIZE | "STAMPED" CONTACTS | SIZE  |
|------------------|------|--------------------|-------|
| S2-15218         | 16   | S2-15222           | 16    |
|                  |      | S2-15221           | 16/20 |

- MAXIMUM RATED CURRENT IN CHART DEPENDS ON CONTACT SIZE. ACTUAL RATED CURRENT DEPENDS ON WIRE SIZE.
- CONTACT FACTORY FOR ALL AVAILABLE PLATING ON SPECIFIC CONTACTS.
- AMPHENOL SINE PERFORMANCE SPECIFICATIONS REQUIRE THE USE OF AMPHENOL SINE APPROVED TOOLING.

| QUANTITY                                             | PART NUMBER | DESCRIPTION | ITEM |
|------------------------------------------------------|-------------|-------------|------|
| MATERIALS LIST                                       |             |             |      |
| UNLESS OTHERWISE SPECIFIED                           |             |             |      |
| 1) All dimensions are in inches.                     |             |             |      |
| 2) Dimensions in parentheses are for reference only. |             |             |      |
| 3) Pl. DEC 20.00 1 Precision 31/64                   |             |             |      |
| 4) Pl. DEC 20.00 1 Angles 31/64                      |             |             |      |
| 5) Precision Standards Per:                          |             |             |      |
| a) ASME                                              |             |             |      |
| b) ISO-20020                                         |             |             |      |
| c) ASME                                              |             |             |      |
| d) ASME                                              |             |             |      |
| e) ASME                                              |             |             |      |
| f) ASME                                              |             |             |      |
| g) ASME                                              |             |             |      |
| h) ASME                                              |             |             |      |
| i) ASME                                              |             |             |      |
| j) ASME                                              |             |             |      |
| k) ASME                                              |             |             |      |
| l) ASME                                              |             |             |      |
| m) ASME                                              |             |             |      |
| n) ASME                                              |             |             |      |
| o) ASME                                              |             |             |      |
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| q) ASME                                              |             |             |      |
| r) ASME                                              |             |             |      |
| s) ASME                                              |             |             |      |
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| x) ASME                                              |             |             |      |
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| AU) ASME                                             |             |             |      |
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| BC) ASME                                             |             |             |      |
| BD) ASME                                             |             |             |      |
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| BI) ASME                                             |             |             |      |
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| BL) ASME                                             |             |             |      |
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| MA) ASME                                             |             |             |      |
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| OH) ASME                                             |             |             |      |
| OI) ASME                                             |             |             |      |
| OJ) ASME                                             |             |             |      |
| OK) ASME                                             |             |             |      |
| OL) ASME                                             |             |             |      |
| OM) ASME                                             |             |             |      |
| ON) ASME                                             |             |             |      |
| OO) ASME                                             |             |             |      |
| OP) ASME                                             |             |             |      |
| OQ) ASME                                             |             |             |      |
| OR) ASME                                             |             |             |      |
| OS) ASME                                             |             |             |      |
| OT) ASME                                             |             |             |      |
| OU) ASME                                             |             |             |      |
| OV) ASME                                             |             |             |      |
| OW) ASME                                             |             |             |      |
| OX) ASME                                             |             |             |      |
| OY) ASME                                             |             |             |      |
| OZ) ASME                                             |             |             |      |
| PA) ASME                                             |             |             |      |
| PB) ASME                                             |             |             |      |
| PC) ASME                                             |             |             |      |
| PD) ASME                                             |             |             |      |
| PE) ASME                                             |             |             |      |
| PF) ASME                                             |             |             |      |
| PG) ASME                                             |             |             |      |
| PH) ASME                                             |             |             |      |
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| PJ) ASME                                             |             |             |      |
| PK) ASME                                             |             |             |      |
| PL) ASME                                             |             |             |      |
| PM) ASME                                             |             |             |      |
| PN) ASME                                             |             |             |      |
| PO) ASME                                             |             |             |      |
| PP) ASME                                             |             |             |      |
| PQ) ASME                                             |             |             |      |
| PR) ASME                                             |             |             |      |
| PS) ASME                                             |             |             |      |
| PT) ASME                                             |             |             |      |
| PU) ASME                                             |             |             |      |
| PV) ASME                                             |             |             |      |
| PW) ASME                                             |             |             |      |
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| PZ) ASME                                             |             |             |      |
| QA) ASME                                             |             |             |      |
| QB) ASME                                             |             |             |      |
| QC) ASME                                             |             |             |      |
| QD) ASME                                             |             |             |      |
| QE) ASME                                             |             |             |      |
| QF) ASME                                             |             |             |      |
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| QH) ASME                                             |             |             |      |
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| QL) ASME                                             |             |             |      |
| QM) ASME                                             |             |             |      |
| QN) ASME                                             |             |             |      |
| QO) ASME                                             |             |             |      |
| QP) ASME                                             |             |             |      |
| QQ) ASME                                             |             |             |      |
| QR) ASME                                             |             |             |      |
| QS) ASME                                             |             |             |      |
| QT) ASME                                             |             |             |      |
| QU) ASME                                             |             |             |      |
| QV) ASME                                             |             |             |      |
| QW) ASME                                             |             |             |      |
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| RA) ASME                                             |             |             |      |
| RB) ASME                                             |             |             |      |
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| RL) ASME                                             |             |             |      |
| RM) ASME                                             |             |             |      |
| RN) ASME                                             |             |             |      |
| RO) ASME                                             |             |             |      |
| RP) ASME                                             |             |             |      |
| RQ) ASME                                             |             |             |      |
| RR) ASME                                             |             |             |      |
| RS) ASME                                             |             |             |      |
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| RU) ASME                                             |             |             |      |
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| RW) ASME                                             |             |             |      |
| RX) ASME                                             |             |             |      |
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| SA) ASME                                             |             |             |      |
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| SC) ASME                                             |             |             |      |
| SD) ASME                                             |             |             |      |
| SE) ASME                                             |             |             |      |
| SF) ASME                                             |             |             |      |
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| SH) ASME                                             |             |             |      |
| SI) ASME                                             |             |             |      |
| SJ) ASME                                             |             |             |      |
| SK) ASME                                             |             |             |      |
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| SM) ASME                                             |             |             |      |
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| SQ) ASME                                             |             |             |      |
| SR) ASME                                             |             |             |      |
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| SU) ASME                                             |             |             |      |
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| SY) ASME                                             |             |             |      |
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| TA) ASME                                             |             |             |      |
| TB) ASME                                             |             |             |      |
| TC) ASME                                             |             |             |      |
| TD) ASME                                             |             |             |      |
| TE) ASME                                             |             |             |      |
| TF) ASME                                             |             |             |      |
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| TK) ASME                                             |             |             |      |
| TL) ASME                                             |             |             |      |
| TM) ASME                                             |             |             |      |
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| TO) ASME                                             |             |             |      |
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| TV) ASME                                             |             |             |      |
| TW) ASME                                             |             |             |      |
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| UA) ASME                                             |             |             |      |
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| UC) ASME                                             |             |             |      |
| UD) ASME                                             |             |             |      |
| UE) ASME                                             |             |             |      |
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| UI) ASME                                             |             |             |      |
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| UK) ASME                                             |             |             |      |
| UL) ASME                                             |             |             |      |
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| UO) ASME                                             |             |             |      |
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| VA) ASME                                             |             |             |      |
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| VO) ASME                                             |             |             |      |
| VP) ASME                                             |             |             |      |
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| WA) ASME                                             |             |             |      |
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|                                                      |             |             |      |

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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