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NEXT GENERATION GRACE INERTIA CONNECTOR 3.3 CONTACT

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## Application Specification

114-106094

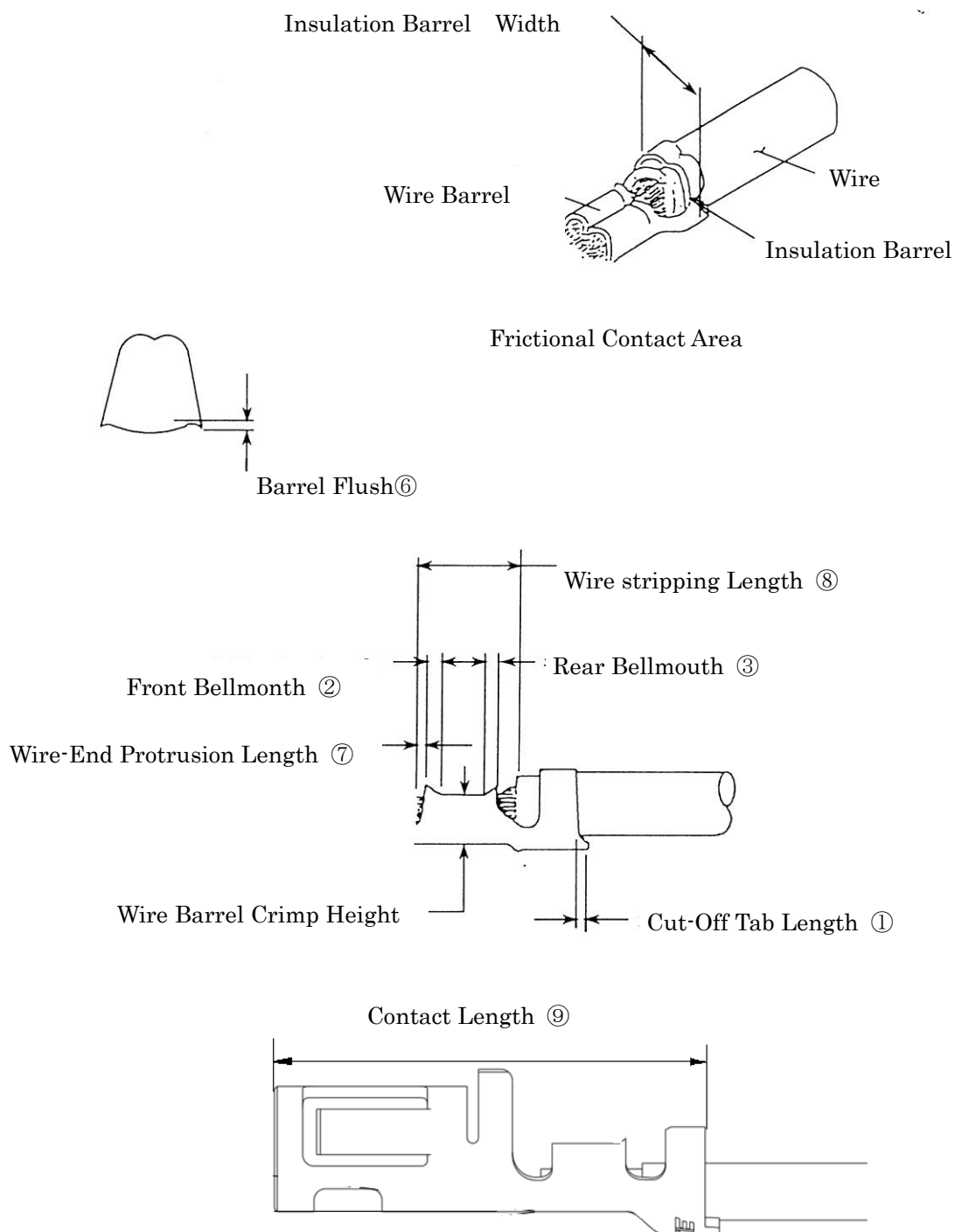
## GRACE INERTIA CONNECTOR 3.3 CONTACT

## 1. Applicable Product Part Number

| Description | Part No.  | Wire Size<br>mm <sup>2</sup> (AWG) | Insulation Diameter<br>(mm) |
|-------------|-----------|------------------------------------|-----------------------------|
| REC CONTACT | 1983780-1 | 0.21~0.53<br>(AWG#24~#20)          | φ 1.5~2.5                   |
|             |           |                                    |                             |

Strip Contact for Application Crimp

## 2. Nomenclature and Crimping Features:



**Fig.1**

## 3. Crimping Conditions and Crimp Data:

### 3.1 Crimping Conditions:

| No. | Item                               |                | Spec         | Refer   |
|-----|------------------------------------|----------------|--------------|---------|
| 1   | Allowable Deviation after Crimping | Bend-up        | 3° Max.      | Fig.2 ① |
|     |                                    | Bend-down      | 3° Max.      | Fig.3 ② |
|     |                                    | Twisting       | 3° Max.      | Fig.4 ③ |
|     |                                    | Rolling        | 5° Max.      | Fig.5 ④ |
| 2   | Cut-Off-Tab Length                 |                | 0.25mm (MAX) | Fig.1 ① |
| 3   | Bellmouth                          | Rear           | 0.1~0.3mm    | Fig.1 ③ |
| 4   | Anvil Flush                        |                | 0.2mm Max.   | Fig.1 ⑥ |
| 5   | Wire-End Protrusion Length         |                | 0.1~0.65mm   | Fig.1 ⑦ |
| 6   | Insulation stripping Length        | One-Wire Crimp | 2±0.3mm      | Fig.1 ⑧ |
| 7   | Contact length                     |                | 8.3±0.2mm    | Fig.1 ⑧ |

① Bend-up

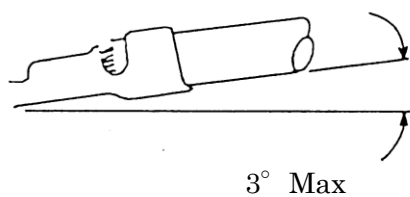


Fig. 2

② Bend-down

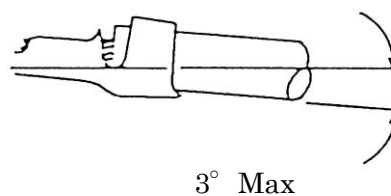


Fig. 3

③ Twisting

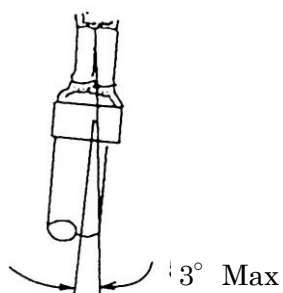


Fig. 4-1

③ Twisting

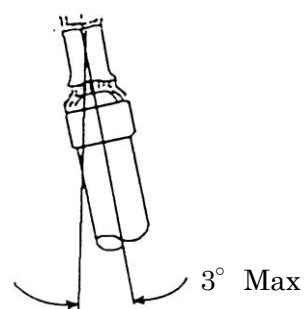


Fig. 4-2

④ Rolling

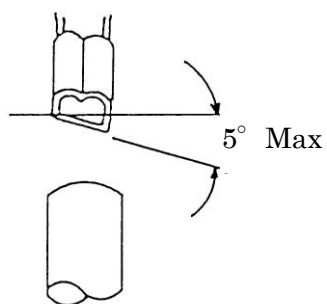


Fig. 5-1

④ Rolling

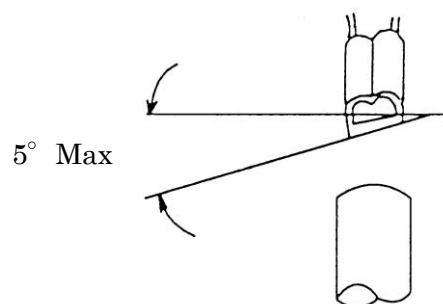


Fig. 5-2

## 3-2. Crimping Data

### Application Crimp

| Applicator Number.                              | Wire Size |                       | Insulation Stripping Length<br>±<br>0.5(mm) | Wire Barrel Crimp |                   |             | Insulation Barrel Crimp |             | Finished insulation Diameter (mm) | Crimp Tensile Strength (kg)min. |
|-------------------------------------------------|-----------|-----------------------|---------------------------------------------|-------------------|-------------------|-------------|-------------------------|-------------|-----------------------------------|---------------------------------|
|                                                 | No.       | mm <sup>2</sup> (AWG) |                                             | Width (mm)        | Height ±0.03 (mm) | Disk Symbol | Width (mm)              | Height (mm) |                                   |                                 |
| 1762389-2<br>(* 1) ;<br>2088571-2;<br>1552510-2 | 1         | 0.21~0.23<br>(#24)    | 2                                           | 1.27<br>"F"       | 0.74              | C           | 2.6"F"                  | (* 2)       | 1.5~2.5                           | 3                               |
|                                                 | 1         | 0.31~0.38<br>(#22)    |                                             |                   | 0.80              | B           |                         |             |                                   | 5                               |
|                                                 | 1         | 0.51~0.53<br>(#20)    |                                             |                   | 0.93              | A           |                         |             |                                   | 6                               |

(\* 1) 1762389-2 are not available on TE now .

(\* 2) Insulation barrel crimp height must apply following

①Applicable wire insulation dia ϕ 1.5~ ϕ 2.0 : 2.4mm Min.

②Applicable wire insulation dia ϕ 2.0~ ϕ 2.5 : 2.7mm Min

## 3-2-2 Hand Tool Crimp

| Hand Tool Number. | Wire Size |                       | Insulation Stripping Length<br>±0.5(mm) | Wire Barrel Crimp |                    |             | Insulation Barrel Crimp Width (mm) | Finished insulation Diameter (mm) | Crimp Tensile Strength (kg)min. |
|-------------------|-----------|-----------------------|-----------------------------------------|-------------------|--------------------|-------------|------------------------------------|-----------------------------------|---------------------------------|
|                   | No.       | mm <sup>2</sup> (AWG) |                                         | Width (mm)        | Height ± 0.05 (mm) | Disk Symbol |                                    |                                   |                                 |
| 1762390-1         | 1         | 0.21~0.23 (#24)       | 2                                       | 1.27<br>“F”       | 0.75               | B           | 2.6“F”                             | 1.5~2.5                           | 3                               |
|                   | 1         | 0.31~0.38 (#22)       |                                         |                   |                    |             |                                    |                                   | 5                               |
|                   | 1         | 0.51~0.53 (#20)       |                                         |                   | 0.90               | A           |                                    |                                   | 6                               |