

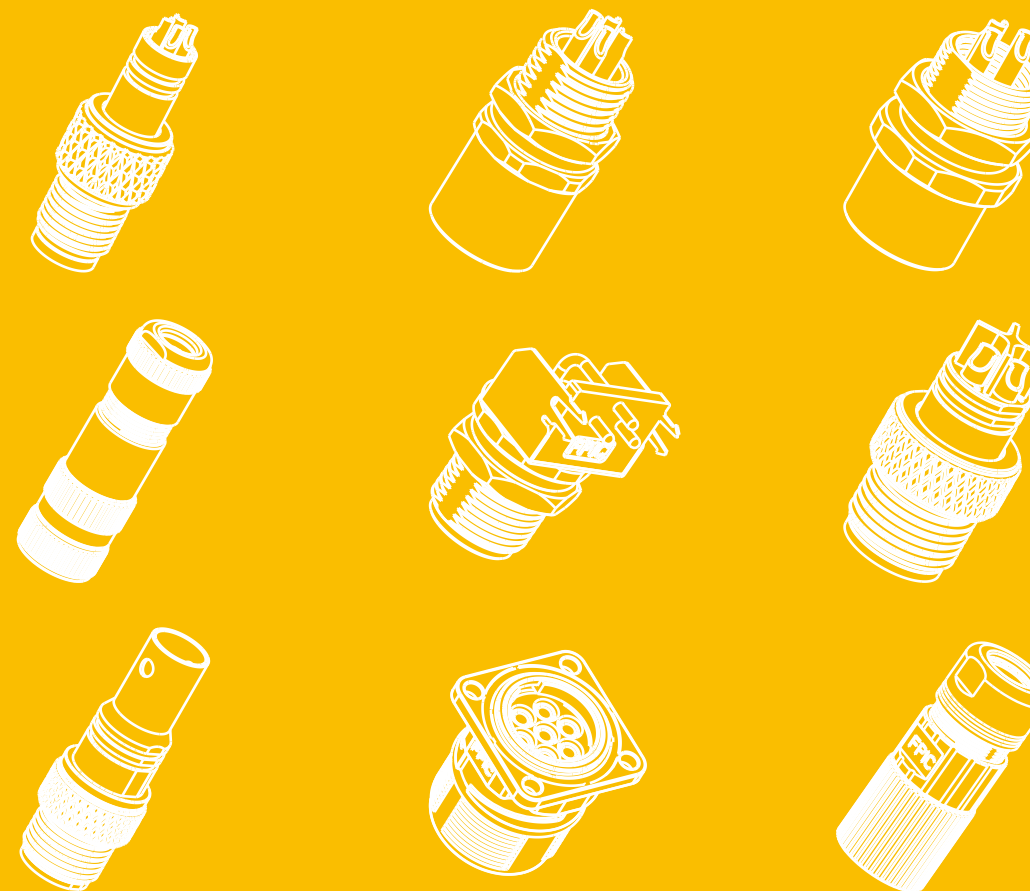


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# Circular Connectors

## M5 Series Cable Assembly



<https://fpiconn.com>

“ IF THERE IS A WAY  
TO DO IT BETTER,  
FIND IT ”

By : Thomas Alva Edison

## ► Company Profile

Shenzhen Forman Precision Industry Co., Ltd. is a leading and experienced manufacturing vendor, has been always committing to the technology of metal and plastic parts, focusing on designing and manufacturing connectors and cables over 20 years. Our market involves the segment of automotive, new energy, industrial automation, medical devices, etc. By now, we have been already certificated by ISO9001, ISO14000, IATF16949, ISO 13485:2016, and the member of USB association, UL, TUV.

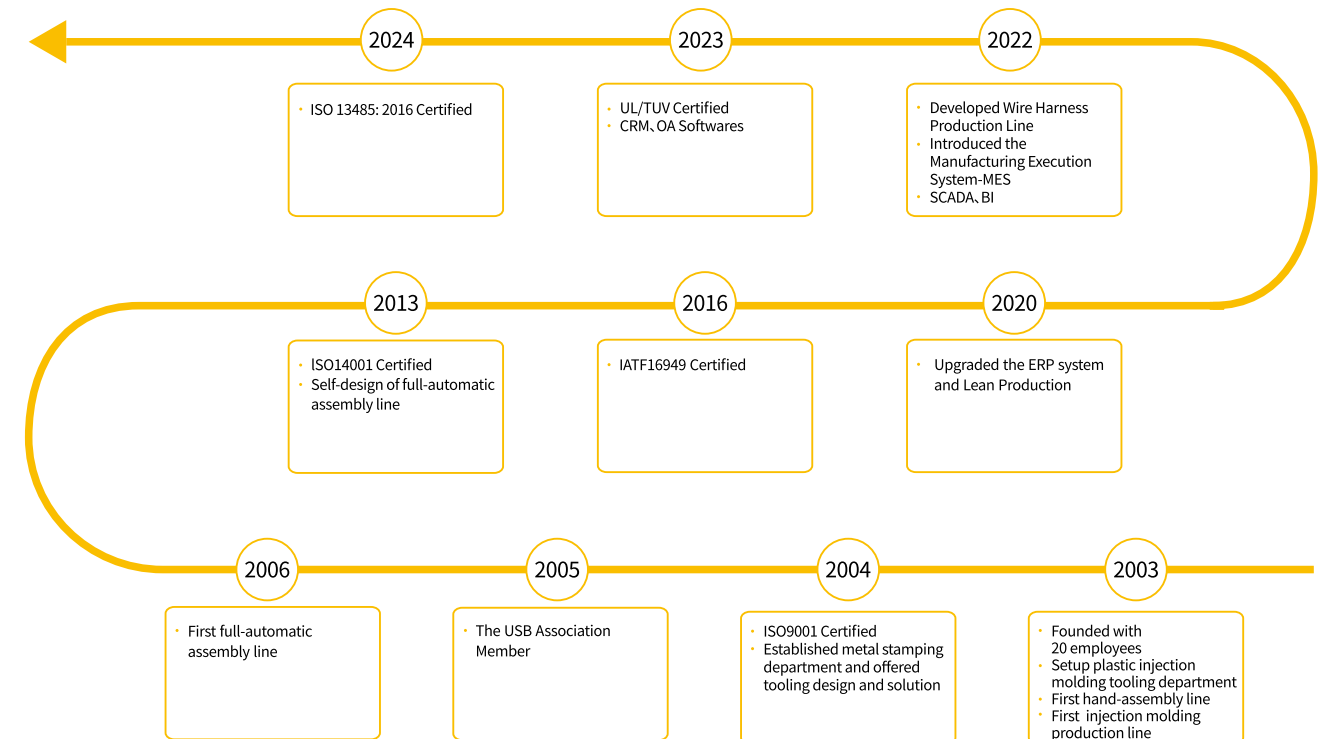
Our goal is to offer unique service experience and add value to our customers with end-to-end management. As such, we highly enjoy our reputation for being fast, flexible, and focused.



Reception



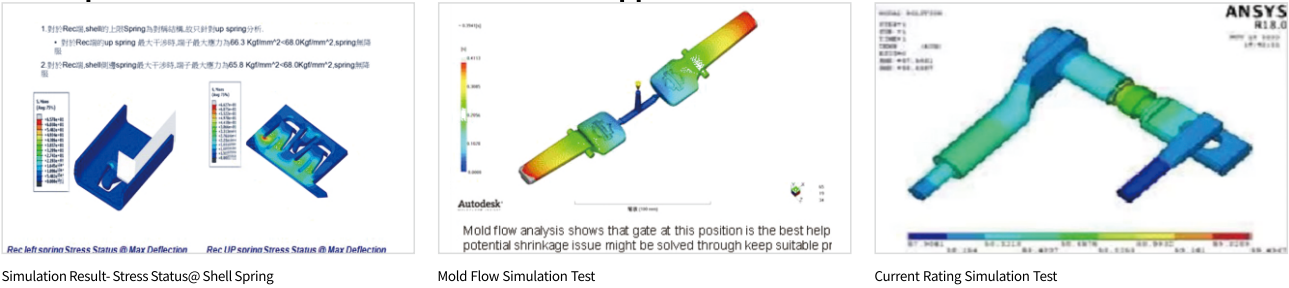
Factory





Our Advantages

The Experienced R&D Team and CAE Software Support



The Modernization One-stop Production Process



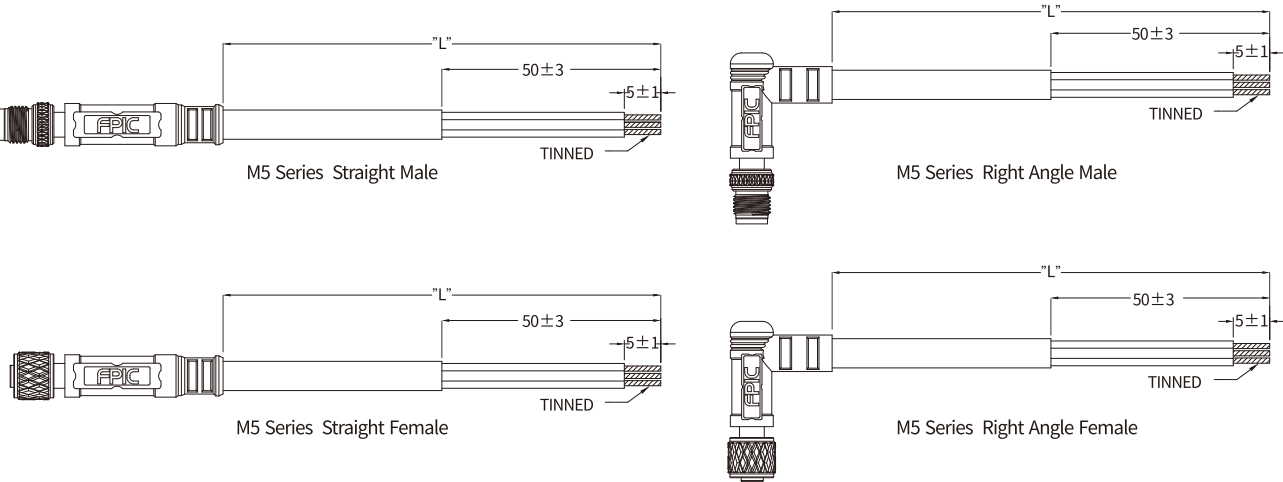
We Strictly Implement the Process of Product Quality.



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| M5 Series Injection Molded Cable Assembly | 01-04 |
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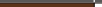
M5 Series Molding Type



M5 Series Coding Electrical Parameters

| Series | Coding | Number of Positions | Male | Rated Current | Rated Voltage | Max. Conductor Size |      | Female |
|--------|--------|---------------------|------|---------------|---------------|---------------------|------|--------|
|        |        |                     |      |               |               | AWG                 | mm²  |        |
| M5     | A      | 3                   |      | A1            | 60V           | 26                  | 0.14 |        |
|        |        | 4                   |      | A1            | 60V           | 26                  | 0.14 |        |

M5 Series Cable Color Definition

| From Poles | M5 Cable Definition |                                                                                     | To Poles | From Poles | M5 Cable Definition |                                                                                      | To Poles |
|------------|---------------------|-------------------------------------------------------------------------------------|----------|------------|---------------------|--------------------------------------------------------------------------------------|----------|
|            | 3 Poles             |                                                                                     |          |            | 4 Poles             |                                                                                      |          |
| 1          | BN                  |  | 1        | 1          | BN                  |  | 1        |
| 2          | BU                  |  | 2        | 2          | WH                  |  | 2        |
| 3          | BK                  |  | 3        | 3          | BU                  |  | 3        |
|            |                     |                                                                                     |          | 4          | BK                  |  | 4        |

M5 Series Single Ended Connector Cable Assembly

| Part Number              | Part Description                                                      | Poles | Type                                                                                  | Cable Material | Shielded/<br>Unshielded |
|--------------------------|-----------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|----------------|-------------------------|
| APMU-1SS1A1NNN03-001M-00 | M5 S-Male A Code 3Pos<br>Cable 3C Black L=0.1M                        | 3     |    | PVC            | Unshielded              |
| APMU-1SS1A2NNN03-001M-00 |                                                                       |       |                                                                                       | PUR            | Unshielded              |
| APMU-1SS1A1NNN04-001M-00 | M5 S-Male A Code 4Pos<br>Cable 4C Black L=0.1M                        | 4     |                                                                                       | PVC            | Unshielded              |
| APMU-1SS1A2NNN04-001M-00 |                                                                       |       |                                                                                       | PUR            | Unshielded              |
| APMU-1SR1A1NNN03-001M-00 | M5 R-Male A Code 3Pos<br>Cable 3C Black L=0.1M                        | 3     |    | PVC            | Unshielded              |
| APMU-1SR1A2NNN03-001M-00 |                                                                       |       |                                                                                       | PUR            | Unshielded              |
| APMU-1SR1A1NNN04-001M-00 | M5 R-Male A Code 4Pos<br>Cable 4C Black L=0.1M                        | 4     |                                                                                       | PVC            | Unshielded              |
| APMU-1SR1A2NNN04-001M-00 |                                                                       |       |                                                                                       | PUR            | Unshielded              |
| APMU-1SS2A1NNN03-001M-00 | M5 S-Female A Code 3Pos<br>Cable 3C Black L=0.1M                      | 3     |   | PVC            | Unshielded              |
| APMU-1SS2A2NNN03-001M-00 |                                                                       |       |                                                                                       | PUR            | Unshielded              |
| APMU-1SS2A1NNN04-001M-00 | M5 S-Female A Code 4Pos<br>Cable 4C Black L=0.1M                      | 4     |                                                                                       | PVC            | Unshielded              |
| APMU-1SS2A2NNN04-001M-00 |                                                                       |       |                                                                                       | PUR            | Unshielded              |
| APMU-1SR2A1NNN03-001M-00 | M5 R-Female A Code 3Pos<br>Cable 3C Black L=0.1M                      | 3     |  | PVC            | Unshielded              |
| APMU-1SR2A2NNN03-001M-00 |                                                                       |       |                                                                                       | PUR            | Unshielded              |
| APMU-1SR2A1NNN04-001M-00 | M5 R-Female A Code 4Pos<br>Cable 4C Black L=0.1M                      | 4     |                                                                                       | PVC            | Unshielded              |
| APMU-1SR2A2NNN04-001M-00 |                                                                       |       |                                                                                       | PUR            | Unshielded              |
| APMU-1DS1A1S1A03-001-00  | M5 S-Male A Code to<br>M5 S-Male A Code 3Pos<br>Cable 3C Black L=0.1M | 3     |  | PVC            | Unshielded              |
| APMU-1DS1A2S1A03-001-00  |                                                                       |       |                                                                                       | PUR            | Unshielded              |
| APMU-1DS1A1S1A04-001-00  | M5 S-Male A Code to<br>M5 S-Male A Code 4Pos<br>Cable 4C Black L=0.1M | 4     |                                                                                       | PVC            | Unshielded              |
| APMU-1DS1A2S1A04-001-00  |                                                                       |       |                                                                                       | PUR            | Unshielded              |
| APMU-1DS1A1R1A03-001-00  | M5 S-Male A Code to<br>M5 R-Male A Code 3Pos<br>Cable 3C Black L=0.1M | 3     |  | PVC            | Unshielded              |
| APMU-1DS1A2R1A03-001-00  |                                                                       |       |                                                                                       | PUR            | Unshielded              |
| APMU-1DS1A1R1A04-001-00  | M5 S-Male A Code to<br>M5 R-Male A Code 4Pos<br>Cable 4C Black L=0.1M | 4     |                                                                                       | PVC            | Unshielded              |
| APMU-1DS1A2R1A04-001-00  |                                                                       |       |                                                                                       | PUR            | Unshielded              |



M5 Series Both Ended Connector Cable Assembly

| Part Number             | Part Description                                                    | Poles | Type                                                                                 | Cable Material | Shielded/Unshielded |
|-------------------------|---------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|----------------|---------------------|
| APMU-1DS1A1S2A03-001-00 | M5 S-Male A Code to M5 S-Female A Code 3Pos Cable 3C Black L=0.1M   | 3     |    | PVC            | Unshielded          |
| APMU-1DS1A2S2A03-001-00 |                                                                     |       |                                                                                      | PUR            | Unshielded          |
| APMU-1DS1A1S2A04-001-00 | M5 S-Male A Code to M5 S-Female A Code 4Pos Cable 4C Black L=0.1M   | 4     |                                                                                      | PVC            | Unshielded          |
| APMU-1DS1A2S2A04-001-00 |                                                                     |       |                                                                                      | PUR            | Unshielded          |
| APMU-1DS1A1R2A03-001-00 | M5 S-Male A Code to M5 R-Female A Code 3Pos Cable 3C Black L=0.1M   | 3     |    | PVC            | Unshielded          |
| APMU-1DS1A2R2A03-001-00 |                                                                     |       |                                                                                      | PUR            | Unshielded          |
| APMU-1DS1A1R2A04-001-00 | M5 S-Male A Code to M5 R-Female A Code 4Pos Cable 4C Black L=0.1M   | 4     |                                                                                      | PVC            | Unshielded          |
| APMU-1DS1A2R2A04-001-00 |                                                                     |       |                                                                                      | PUR            | Unshielded          |
| APMU-1DR1A1R1A03-001-00 | M5 R-Male A Code to M5 R-Male A Code 3Pos Cable 3C Black L=0.1M     | 3     |   | PVC            | Unshielded          |
| APMU-1DR1A2R1A03-001-00 |                                                                     |       |                                                                                      | PUR            | Unshielded          |
| APMU-1DR1A1R1A04-001-00 | M5 R-Male A Code to M5 R-Male A Code 4Pos Cable 4C Black L=0.1M     | 4     |                                                                                      | PVC            | Unshielded          |
| APMU-1DR1A2R1A04-001-00 |                                                                     |       |                                                                                      | PUR            | Unshielded          |
| APMU-1DR1A1S2A03-001-00 | M5 R-Male A Code to M5 S-Female A Code 3Pos Cable 3C Black L=0.1M   | 3     |  | PVC            | Unshielded          |
| APMU-1DR1A2S2A03-001-00 |                                                                     |       |                                                                                      | PUR            | Unshielded          |
| APMU-1DR1A1S2A04-001-00 | M5 R-Male A Code to M5 S-Female A Code 4Pos Cable 4C Black L=0.1M   | 4     |                                                                                      | PVC            | Unshielded          |
| APMU-1DR1A2S2A04-001-00 |                                                                     |       |                                                                                      | PUR            | Unshielded          |
| APMU-1DR1A1R2A03-001-00 | M5 R-Male A Code to M5 R-Female A Code 3Pos Cable 3C Black L=0.1M   | 3     |  | PVC            | Unshielded          |
| APMU-1DR1A2R2A03-001-00 |                                                                     |       |                                                                                      | PUR            | Unshielded          |
| APMU-1DR1A1R2A04-001-00 | M5 R-Male A Code to M5 R-Female A Code 4Pos Cable 4C Black L=0.1M   | 4     |                                                                                      | PVC            | Unshielded          |
| APMU-1DR1A2R2A04-001-00 |                                                                     |       |                                                                                      | PUR            | Unshielded          |
| APMU-1DS2A1S2A03-001-00 | M5 S-Female A Code to M5 S-Female A Code 3Pos Cable 3C Black L=0.1M | 3     |  | PVC            | Unshielded          |
| APMU-1DS2A2S2A03-001-00 |                                                                     |       |                                                                                      | PUR            | Unshielded          |
| APMU-1DS2A1S2A04-001-00 | M5 S-Female A Code to M5 S-Female A Code 4Pos Cable 4C Black L=0.1M | 4     |                                                                                      | PVC            | Unshielded          |
| APMU-1DS2A2S2A04-001-00 |                                                                     |       |                                                                                      | PUR            | Unshielded          |

M5 Series Both Ended Connector Cable Assembly

| Part Number             | Part Description                                                    | Poles | Type                                                                                | Cable Material | Shielded/Unshielded |
|-------------------------|---------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|----------------|---------------------|
| APMU-1DS2A1R2A03-001-00 | M5 S-Female A Code to M5 R-Female A Code 3Pos Cable 3C Black L=0.1M | 3     |  | PVC            | Unshielded          |
| APMU-1DS2A2R2A03-001-00 |                                                                     |       |                                                                                     | PUR            | Unshielded          |
| APMU-1DS2A1R2A04-001-00 | M5 S-Female A Code to M5 R-Female A Code 4Pos Cable 4C Black L=0.1M | 4     |                                                                                     | PVC            | Unshielded          |
| APMU-1DS2A2R2A04-001-00 |                                                                     |       |                                                                                     | PUR            | Unshielded          |
| APMU-1DR2A1R2A03-001-00 | M5 R-Female A Code to M5 R-Female A Code 3Pos Cable 3C Black L=0.1M | 3     |  | PVC            | Unshielded          |
| APMU-1DR2A2R2A03-001-00 |                                                                     |       |                                                                                     | PUR            | Unshielded          |
| APMU-1DR2A1R2A04-001-00 | M5 R-Female A Code to M5 R-Female A Code 4Pos Cable 4C Black L=0.1M | 4     |                                                                                     | PVC            | Unshielded          |
| APMU-1DR2A2R2A04-001-00 |                                                                     |       |                                                                                     | PUR            | Unshielded          |

M5 Series Product Parameters

Material

- Contact: Brass, Gold Flash Plating
- Nut: Brass, Nickel Plating
- O-Ring: Silicon Rubber
- Housing: PA
- Over-Molding: PVC or TPU
- Over-Molding Color: Black or Gray

Key Options: A Coded

M5 Postions:3 or 4Poles

M5 Single or Both Ended Cable Assembly

Cable Length Options: Custom

Cable Specification

Cable Jacket: PVC or PUR

Cable Assemblies: Unshielded Versions

Jacket Color: Black or Gray

Conductor: 26AWG/28AWG

Mechanical

Durability:100 Cycles

Degree of Protection: IP67

Temperature Range:

-PVC:

Fixed: -40°C to +80°C

Flexible: -20°C to +80°C

-PUR:

Fixed: -40°C to +80°C

Flexible: -20°C to +80°C

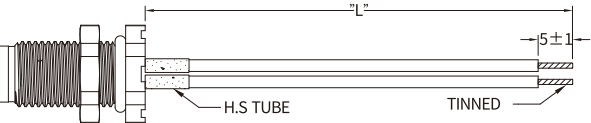
Electrical

Current Rating: 1A

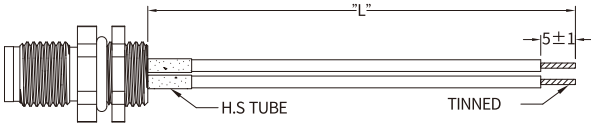
Voltage Rating: 60V

Insulation Resistance: 100MΩ Min.

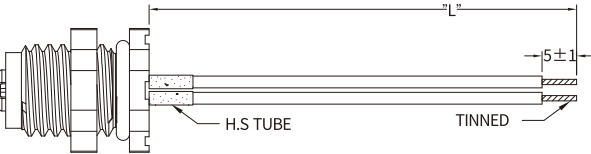
M5 Series Board Ended Connector Harness Assembly Definition



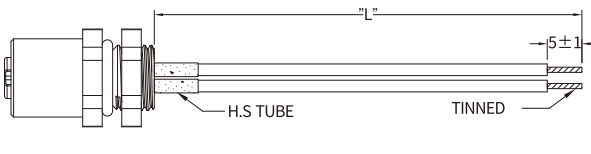
M5 Series Plate End Front Lock Nut Type Male Connector



M5 Series Plate End Rear Lock Nut Type Male Connector



M5 Series Plate End Front Lock Nut Type Female Connector



M5 Series Plate End Rear Lock Nut Type Female Connector

M5 Series Board Ended Connector Harness Assembly

| Part Number             | Part Description                                                                 | Poles | Type | Wire Material |
|-------------------------|----------------------------------------------------------------------------------|-------|------|---------------|
| APMB-F1A0403AW1-001M-00 | M5 Male A Code /Contact<br>Plating Gold 3u"/ Front Lock Nut/<br>Wire 3C L=0.1M   | 3     |      | PVC           |
| APMB-F1A0403AW2-001M-00 |                                                                                  |       |      | TPU           |
| APMB-F1A0403AW3-001M-00 |                                                                                  |       |      | PTFE          |
| APMB-F1A0404AW1-001M-00 | M5 Male A Code /Contact<br>Plating Gold 3u"/ Front Lock Nut/<br>Wire 4C L=0.1M   | 4     |      | PVC           |
| APMB-F1A0404AW2-001M-00 |                                                                                  |       |      | TPU           |
| APMB-F1A0404AW3-001M-00 |                                                                                  |       |      | PTFE          |
| APMB-B1A0403AW1-001M-00 | M5 Male A Code /Contact<br>Plating Gold 3u"/ Rear Lock Nut/<br>Wire 3C L=0.1M    | 3     |      | PVC           |
| APMB-B1A0403AW2-001M-00 |                                                                                  |       |      | TPU           |
| APMB-B1A0403AW3-001M-00 |                                                                                  |       |      | PTFE          |
| APMB-B1A0404AW1-001M-00 | M5 Male A Code /Contact<br>Plating Gold 3u"/ Rear Lock Nut/<br>Wire 4C L=0.1M    | 4     |      | PVC           |
| APMB-B1A0404AW2-001M-00 |                                                                                  |       |      | TPU           |
| APMB-B1A0404AW3-001M-00 |                                                                                  |       |      | PTFE          |
| APMB-F2A0403AW1-001M-00 | M5 Female A Code /Contact<br>Plating Gold 3u"/ Front Lock Nut/<br>Wire 3C L=0.1M | 3     |      | PVC           |
| APMB-F2A0403AW2-001M-00 |                                                                                  |       |      | TPU           |
| APMB-F2A0403AW3-001M-00 |                                                                                  |       |      | PTFE          |
| APMB-F2A0404AW1-001M-00 | M5 Female A Code /Contact<br>Plating Gold 3u"/ Front Lock Nut/<br>Wire 4C L=0.1M | 4     |      | PVC           |
| APMB-F2A0404AW2-001M-00 |                                                                                  |       |      | TPU           |
| APMB-F2A0404AW3-001M-00 |                                                                                  |       |      | PTFE          |
| APMB-B2A0403AW1-001M-00 | M5 Female A Code /Contact<br>Plating Gold 3u"/ Rear Lock Nut/<br>Wire 3C L=0.1M  | 3     |      | PVC           |
| APMB-B2A0403AW2-001M-00 |                                                                                  |       |      | TPU           |
| APMB-B2A0403AW3-001M-00 |                                                                                  |       |      | PTFE          |
| APMB-B2A0404AW1-001M-00 | M5 Female A Code /Contact<br>Plating Gold 3u"/ Rear Lock Nut/<br>Wire 4C L=0.1M  | 4     |      | PVC           |
| APMB-B2A0404AW2-001M-00 |                                                                                  |       |      | TPU           |
| APMB-B2A0404AW3-001M-00 |                                                                                  |       |      | PTFE          |

“STRIVING FOR PERFECTION  
IN EVERY THINGS  
YOU DO”

By : Sir Henry Royce