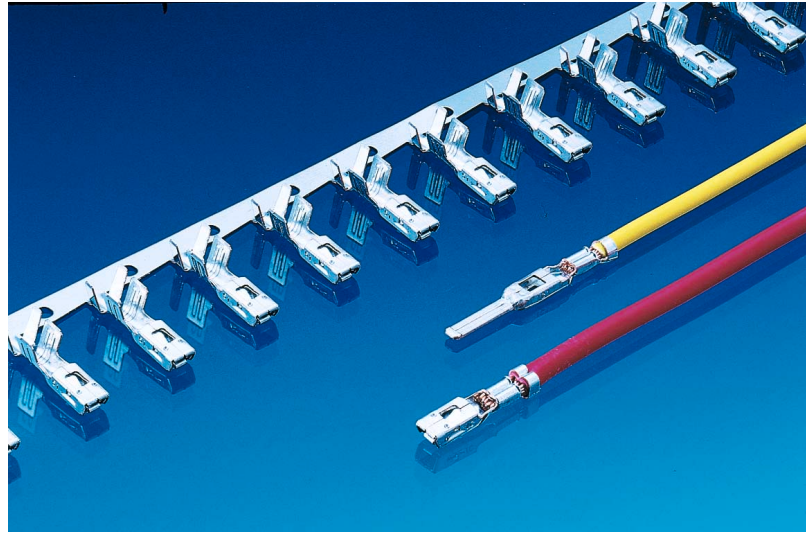


## 2.8 mm female and male terminals

### Features

- APEX technology
- High current carrying capacity
- 5 mm pitch
- Low contact mating force
- Design compatible with a large range of connector sealing technologies (single wire sealing, mat-seal)
- Grease option available
- Suitable for secondary lock
- Selective gold-plated versions available



### Performance characteristics

- |                           |        |                             |      |
|---------------------------|--------|-----------------------------|------|
| • Contact resistance:     | < 2 mΩ | • Current carrying capacity |      |
| • Contact mating force:   | < 5 N  | at 23°C up to approx.:      | 40 A |
| • Contact unmating force: | < 2 N  | at 85°C up to approx.:      | 30 A |
|                           |        | at 100°C up to approx.:     | 18 A |
|                           |        | at 125°C up to approx.:     | 10 A |

### Tooling

- |                         |            |
|-------------------------|------------|
| • Manual crimping tool: | Consult us |
| • Mini applicator:      | Consult us |

Part Numbers	Type	Wire size range (in AWG)		Insulation Ø (in mm) Max.	Grease	Material	Plating
		Min.	Max.				
54002200	Female	22	22	1.75	No	CuTeSn/CuBe	Sn
54001800	Female	20	18	2.13	No	CuTeSn/CuBe	Sn
54001300	Female	20+20	18+18	-	No	CuTeSn/CuBe	Sn
54001400	Female	16	14	2.77	No	CuTeSn/CuBe	Sn
54001000	Female	12	10	4.09	No	CuTeSn/CuBe	Sn
54002202	Female	22	22	1.75	Yes	CuTeSn/CuBe	Sn
54001802	Female	20	18	2.13	Yes	CuTeSn/CuBe	Sn
54001302	Female	20+20	18+18	-	Yes	CuTeSn/CuBe	Sn
54001402	Female	16	14	2.77	Yes	CuTeSn/CuBe	Sn
54001002	Female	12	10	4.09	Yes	CuTeSn/CuBe	Sn
54002203	Female	22	22	1.75	No	CuTeSn/CuBe	Au
54001803	Female	20	18	2.13	No	CuTeSn/CuBe	Au
54001303	Female	20+20	18+18	-	No	CuTeSn/CuBe	Au
54001403	Female	16	14	2.77	No	CuTeSn/CuBe	Au
54001003	Female	12	10	4.09	No	CuTeSn/CuBe	Au
54001208	Female	12	12	3.35	No	CuTeSn/CuBe	Sn
54001209	Female	12	12	3.35	Yes	CuTeSn/CuBe	Sn
54001210	Female	12	12	3.35	No	CuTeSn/CuBe	Au

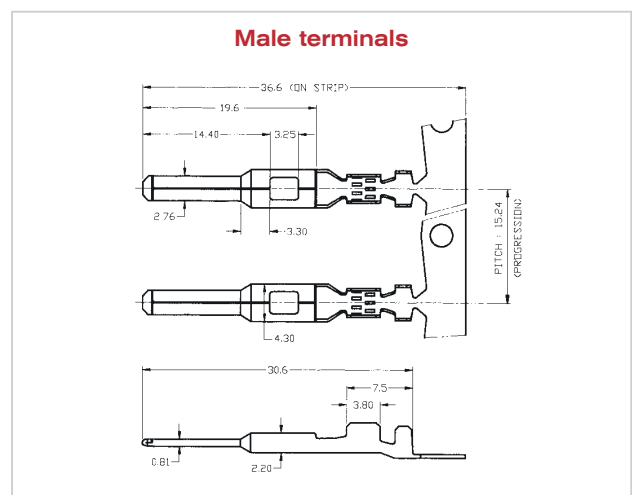
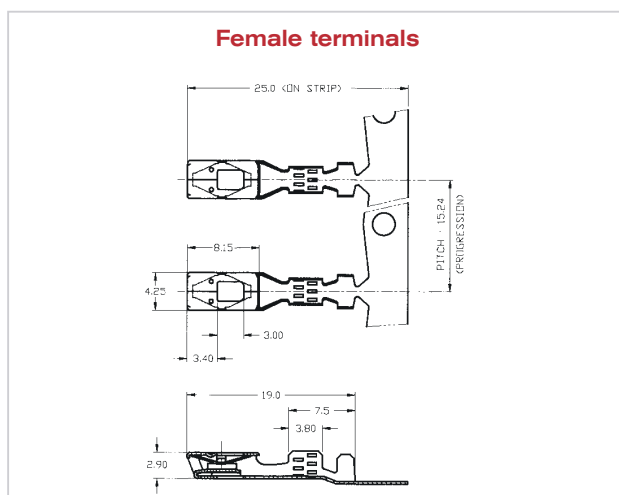
SWS: Single Wire Seal

## 2.8 mm female and male terminals

Part Numbers	Type	Wire size range (in AWG)		Insulation Ø (in mm) Max.	Grease	Material	Plating
		Min.	Max.				
54002208 (SWS)	Female	22	22	1.75	No	CuTeSn/CuBe	Sn
54001807 (SWS)	Female	20	18	2.13	No	CuTeSn/CuBe	Sn
54001404 (SWS)	Female	16	14	2.77	No	CuTeSn/CuBe	Sn
54001202 (SWS)	Female	12	12	3.35	No	CuTeSn/CuBe	Sn
54001008 (SWS)	Female	12	10	4.09	No	CuTeSn/CuBe	Sn
54002209 (SWS)	Female	22	22	1.75	Yes	CuTeSn/CuBe	Sn
54001810 (SWS)	Female	20	18	2.13	Yes	CuTeSn/CuBe	Sn
54001409 (SWS)	Female	16	14	2.77	Yes	CuTeSn/CuBe	Sn
54001205 (SWS)	Female	12	12	3.35	Yes	CuTeSn/CuBe	Sn
54001009 (SWS)	Female	12	10	4.09	Yes	CuTeSn/CuBe	Sn
54002210 (SWS)	Female	22	22	1.75	No	CuTeSn/CuBe	Au
54001811 (SWS)	Female	20	18	2.13	No	CuTeSn/CuBe	Au
54001410 (SWS)	Female	16	14	2.77	No	CuTeSn/CuBe	Au
54001206 (SWS)	Female	12	12	3.35	No	CuTeSn/CuBe	Au
54001010 (SWS)	Female	12	10	4.09	No	CuTeSn/CuBe	Au
54002201	Male	22	12	1.75	-	CuTeSn	Sn
54001801	Male	20	18	2.13	-	CuTeSn	Sn
54001301	Male	20+20	18+18	-	-	CuTeSn	Sn
54001401	Male	16	14	2.77	-	CuTeSn	Sn
54001001	Male	12	10	4.09	-	CuTeSn	Sn
54001804	Male	20	18	2.13	-	CuTeSn	PdAuNi
54002230	Male	22	22	1.75	-	CuTeSn	PdAuNi
54001818	Male	20	18	2.13	-	CuTeSn	PdAuNi
54002229	Male	22	22	1.75	-	CuTeSn	Au
54001819	Male	20	18	2.13	-	CuTeSn	Au
54002228	Male	22	22	1.75	-	CuTeSn	PdAuNi

SWS: Single Wire Seal

### Dimensional characteristics



Start > Search=54002200\* > **54002200**

**54002200**

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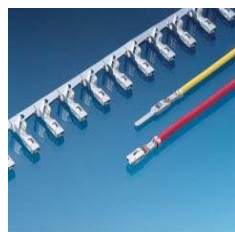
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**54002200**

**Apex female 2.8 mm terminal**

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**Specifications**

General Dimensional Electrical Mechanical Physical Environmental **Other Features**

**General**

Product Type	Terminal System
Terminal size (in mm)	2.8
Family	Apex
Features	without Grease Suitable for Secondary Lock Low Contact Mating Force High Current Carrying Capacity

**Dimensional**

Contact Pitch	5 mm
<b>Electrical</b>	
Maximum Insulation (in mm)	1.75
Resistance (Contact)	< 2
<b>Mechanical</b>	
Range of Wire Gauge Min - Max	AWG 22
Contact mating force	< 5N
Single Wire Seal Compatible	No
Contact unmating force	< 2N
<b>Physical</b>	
Plating	Sn
Material	CuTeSn/CuBe
<b>Environmental</b>	
IMDS	No
<b>Other Features</b>	
Type	Female
Tradename	Apex
Disclaimer	<p>Displayed data is for information purposes only.  For more information, please contact your local sales office.  The supply of some products might be limited to some customers.</p>