

# CTS 6.3 LOCKING LANCE SERIES



CTS 6.3 Locking Lance  
Female Terminals

## BENEFITS

- Compatible with industry standard cavities
- Robust terminal design with several design features providing a perfect electrical function for two different tab thicknesses in one part
- 100% vision controlled manufacturing

## FEATURES

- Protected mating area
- Usable for tab thicknesses of 0.6 and 0.8 mm
- Two-tang primary lock
- Stainless steel spring
- High pre-loaded contact area



## AVAILABLE CONFIGURATIONS

|                                    |                        |
|------------------------------------|------------------------|
| Terminal Construction              | Two-piece              |
| Locking Mechanism                  | Tangless / Lanceless   |
| Crimp Validated to                 | USCAR-21 (2014)        |
| Blade Size (mm)                    | 5.8                    |
| Wire Gage Range (AWG)              | 22 - 9                 |
| Wire Gage Range (mm <sup>2</sup> ) | 0.35 - 6.0             |
| Genders                            | Female                 |
| Sealing Options                    | Unsealed, Cable Sealed |
| Plating Options                    | Sn, Ag                 |
| Mating Tab Dimension (mm)          | 5.8 x 0.8              |

See back page for representative part numbers and packaging dimensions.

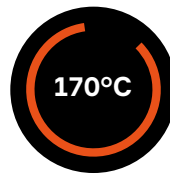


## TECHNICAL CHARACTERISTICS

|                        |  |
|------------------------|--|
| Contact Resistance     | < 4 mΩ   |
| Contact Mating Force   | < 20 N   |
| Contact Unmating Force | > 4 N  |
| Mating Cycles          | 10 (Sn) / 20 (Ag)                              |
| Center Line Spacing    | Unsealed: 8.0 x 6.0 mm<br>Sealed: 9.0 x 9.0 mm |



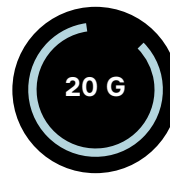
MAX  
TEMP



Ag



MAX  
VIBRATION



MAX CURRENT  
AT 23°C



## About Aptiv

Aptiv is a global technology company that develops safer, greener and more connected solutions enabling the future of mobility. Headquartered in Dublin, Aptiv has approximately 150,000 employees and operates 14 technical centers, as well as manufacturing sites and customer support centers in 45 countries.

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| Sealing      | Gender | Plating | Wire size range (AWG) | Wire size range (mm <sup>2</sup> ) | Part number | Other available platings |
|--------------|--------|---------|-----------------------|------------------------------------|-------------|--------------------------|
| Unsealed     | F      | Sn      | 22                    | 0.35                               | 13976098    | Ag                       |
| Unsealed     | F      | Sn      | 20 - 17               | 0.5 - 1.0                          | 13976099    | Ag                       |
| Unsealed     | F      | Sn      | 16 - 14               | 1.5 - 2.5                          | 13976100    | Ag                       |
| Unsealed     | F      | Sn      | 14 - 12               | 2.5 - 4.0                          | 13976101    | Ag                       |
| Unsealed     | F      | Sn      | 12 - 8                | 4.0 - 6.0                          | 13976102    | Ag                       |
| Cable Sealed | F      | Sn      | 22                    | 0.35                               | 13976114    | Ag                       |
| Cable Sealed | F      | Sn      | 20 - 17               | 0.5 - 1.0                          | 13976115    | Ag                       |
| Cable Sealed | F      | Sn      | 16 - 14               | 1.5 - 2.5                          | 13976116    | Ag                       |
| Cable Sealed | F      | Sn      | 14 - 12               | 2.5 - 4.0                          | 13976117    | Ag                       |
| Cable Sealed | F      | Sn      | 12 - 8                | 4.0 - 6.0                          | 13976118    | Ag                       |

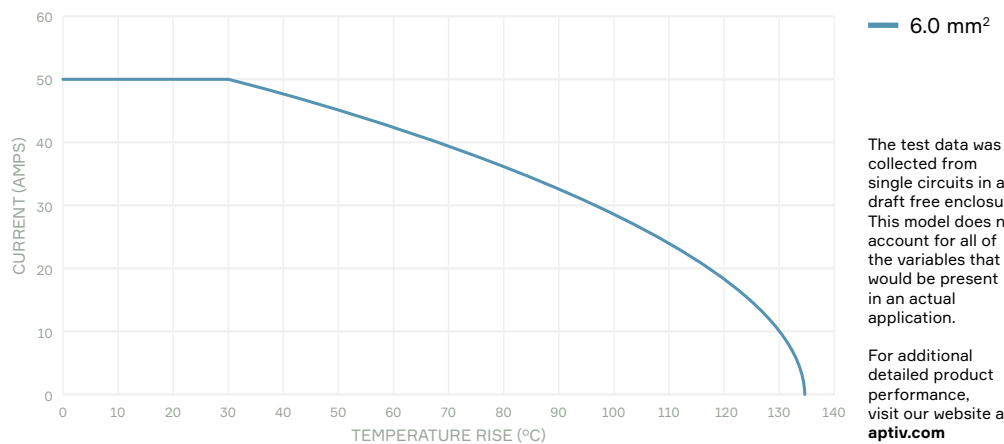
## COMPATIBLE SEALS

| Type       | Applicable wire size (mm <sup>2</sup> ) | Color  | Part number |
|------------|---|--------|-------------|
| Cable Seal | 0.22 - 0.35                             | Yellow | 15363779    |
| Cable Seal | 1.5 - 2.5                               | White  | 15363604    |
| Cable Seal | 2.5 - 6.0                               | Green  | 15363605    |

## DERATING CURVES

Cable range: 0.35 - 6.0 mm<sup>2</sup>  
 Crimp method: Standard  
 Contact plating: Sn  
 Test method: Single circuit in free air\*  
 Mated to: Tab (5,8 x 0,8 mm) Sn

\* For reference only



The test data was collected from single circuits in a draft free enclosure. This model does not account for all of the variables that would be present in an actual application.

For additional detailed product performance, visit our website at [aptiv.com](http://aptiv.com)

Terminal without housing

acc. to DIN EN 60512-5-2

## COMPATIBLE WITH



Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice. To verify product information, please contact an Aptiv representative.

CS-SP110-CTS-En0619

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