



# 75 OHMS Coaxial Contacts

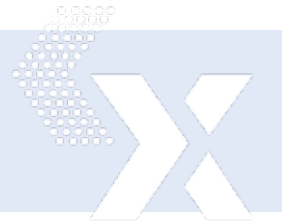


## Description

Amphenol Socapex 75OHMS impedance matched coaxial contacts are designed for use with coaxial cable in video systems (HD-SDI and 3G-SDI).

## Main Features

- Provides 75 ohms matched impedance resulting in low VSWR and low insertion loss
- Does not require contact polarization within the insert (concentric interface)
- Available for MIL-DTL-38999/EN3645 and SIM/EN4165
- Crimp and PC Tails termination
- Easy cable adaptation upon request



## Technical data

- Center contact, outer bodies, ferrule: Copper alloy, 50 micro-inches gold over nickel plating
- Front and rear insulator: Fluoropolymer or equivalent
- Piggy back grommet: Fluorosilicone rubber, thermoplastics

## Environmental Performance

- Operating temperature -65°C to +200°C
- Durability: 500 mating cycles

## Electrical Performance

|                                 |  |
|---------------------------------|--|
| Typical VSWR                    | Meet HD-SDI and 3G-SDI                       |
| Insulation resistance           | 5,000 megaohms minimum at 25°C               |
| Dielectric Withstanding Voltage |  |
| Size 6 and 8                    | 1300VRms at sea level<br>250VRms at 50,000ft |
| Size 12                         | 1000VRms at sea level<br>250VRms at 50,000ft |

## Markets & Applications



C6ISR, Battlefield Communication



Ground Vehicles



Naval



Space



### Applications :

▶ Camera, Video acquisition, video recording, In-flight entertainment

# MIL-DTL-38999 / EN3645 / EN4165

## Crimp Contacts

| Contact Size     | Cable                 | Contact Part Number |        | Piggy Back Grommet |
|------------------|-----------------------|---------------------|--------|--------------------|
|                  |                       | Pin                 | Socket |                    |
| 8                | RG179-B/U             | 600822              | 600841 | 603161             |
|                  | PIC V75268            |                     |        |                    |
|                  | PIC V76261            | 600830              | 600836 | 900472             |
|                  | PIC V73263            |                     |        |                    |
|                  | EMTEQ TFLX 125-075-01 |                     |        |                    |
|                  | TIMES LMR-240-75      | 603963              | 603964 | 612034             |
|                  | RG59 (MIL-DTL-17/29)  | 603967              | 603968 | 612034             |
|                  | PIC V78209            | 603307              | 603308 | 900475             |
|                  | BELDEN 1855A          |                     |        |                    |
|                  | VDM230                | 603954              | 603955 | 900475             |
| TIMES-LMR-200-75 |                       |                     |        |                    |
| 12               | RG179-B/U             | 603039              | 603052 | N/A                |
|                  | EMTEQ TFLX 125-075-01 |                     |        |                    |
|                  | PIC V73263            | 603360              | 603361 | N/A                |
|                  | PIC V76261            |                     |        |                    |



## PC TAILS Contacts

| Contact Size | Tail Length | Contact Part Number |        |
|--------------|-------------|---------------------|--------|
|              |             | Pin                 | Socket |
| 8            | CI          | 600889              | 600909 |
| 12*          | CI          | 603425              | 603420 |

\* Series III

For other stick outs or custom board termination, please consult us.



## MIL-DTL-38999 / EN3645 – VG Standards

Amphenol Socapex propose size 8 coaxial contacts which are in accordance with VG95319:1009 standards.

| Contact Size | Cable                    | Gender |        | VG standard        | Contact Part Number |
|--------------|--------------------------|--------|--------|--------------------|---------------------|
|              |                          | Pin    | Socket |                    |                     |
| 8            | RG 179-B/U               | X      |        | VG95319T1009P8-001 | 612976              |
|              |                          |        | X      | VG95319T1009S8-001 | 612977              |
|              | PIC V76261<br>PIC V73263 | X      |        | VG95319T1009P8-002 | 612978              |
|              |                          |        | X      | VG95319T1009S8-002 | 612979              |
|              | BELDEN 1855R             | X      |        | VG95319T1009P8-003 | 612980              |
|              |                          |        | X      | VG95319T1009S8-003 | 612981              |
|              | PIC V78209               | X      |        | VG95319T1009P8-004 | 612982              |
|              |                          |        | X      | VG95319T1009S8-004 | 612983              |

# MIL-DTL-38999 / EN3645 SIZE 6 CONTACTS SOLUTION

Amphenol Socapex introduce size 6 coaxial contacts dedicated for 75 Ohms applications. Those coax contacts are the perfect choice when the cable size can't fit in a standard contact size. The size 6 coaxial contacts series are designed for special cavities for MIL-DTL-38999 shells. 2 arrangements are available with several platings.



## Crimp Contacts

| Contact Size     | Cable                  | Contact Part Number |        | Piggy Back Grommet |
|------------------|------------------------|---------------------|--------|--------------------|
|                  |                        | Pin                 | Socket |                    |
| 6                | RG179-B/U              | 600757              | 603180 | 600762             |
|                  | DRAKA HD PRO 08/3,7 AF |                     |        |                    |
|                  | BELDEN RG59 08/3,7     |                     |        |                    |
|                  | GRUN 0,6/3,7           | 600813              | 600715 | 600759             |
|                  | BELDEN 1855A           |                     |        |                    |
| TIMES LMR-200-75 |                        |                     |        |                    |



## PC TAILS Contacts

| Contact Size | Tail Length | Contact Part Number |        |
|--------------|-------------|---------------------|--------|
|              |             | Pin                 | Socket |
| 6            | CI          | 600714              | /      |

# 2M/EN4165 SERIES

## Crimp Contacts

| Contact Size | Cable                 | Contact Part Number |        | Piggy Back Grommet |
|--------------|-----------------------|---------------------|--------|--------------------|
|              |                       | Pin                 | Socket |                    |
| 12           | RG179-B/U             | 603039              | 603139 | N/A                |
|              | EMTEQ TFLX 125-075-01 |                     |        |                    |
|              | PIC V73263            | 603360              | 603195 | N/A                |
|              | PIC V76261            |                     |        |                    |

For PC Tail version, please consult us.



More information, read "387TV - Size 7 connector" brochure, DOC-000106-ANG.

# 387TV SERIES

387TV connector series is a unique product derived from MIL-DTL-38999 Series III which offer a size 8 single cavity in a low-profile envelope.

## Crimp Contacts

| Contact Size | Cable                 | Contact Part Number |        | Piggy Back Grommet |
|--------------|-----------------------|---------------------|--------|--------------------|
|              |                       | Pin                 | Socket |                    |
| 8            | RG179-B/U             | 603838              | 603828 | 603161             |
|              | PIC V75268            |                     |        |                    |
|              | PIC V76261            | 603578              | 603748 | 900472             |
|              | PIC V73263            |                     |        |                    |
|              | EMTEQ TFLX 125-075-01 |                     |        |                    |



## PC TAILS Contacts

| Contact Size | Contact Part Number |        | Piggy Back Grommet |
|--------------|---------------------|--------|--------------------|
|              | Pin                 | Socket |                    |
| 8            | 612008              | 612310 | 900472             |

# ARINC 600 SERIES

| Contact Size | Cable                 | Contact Part Number |        |
|--------------|-----------------------|---------------------|--------|
|              |                       | Pin                 | Socket |
| 8            | RG179-B/U             | 612127              | 612126 |
|              | EMTEQ TFLX 125-075-01 |                     |        |
|              | PIC V73263            | 612244              | 612243 |
|              | PIC V76261            |                     |        |

For PC Tail version, please consult us.

## See our product Selector, Traceparts or coax contacts termination procedure

Product Selector

Coax Contacts Termination Procedure