

## 75 OHMS HD Coaxial Contacts



### Description

Amphenol Socapex introduce a new generation of 75OHMS coax contacts which are optimized for 4K Ultra HD and designed for 12G-SDI video applications.

### Main Features

- Size 8
- One channel for 4K or Ultra-HD quality
- Unique float mount technology to allow consistent microwave performance
- Does not require contact polarization within the insert (concentric interface)
- Available for MIL-DTL-38999/EN3645 and SIM/EN4165
- Crimp and PC Tails termination

### Technical data

- Center contact, crimp ferrule, and rear body: Copper alloy, 50 micro-inches gold over nickel plating
- Front body: Passivated stainless steel
- Insulators: Fluoropolymer or equivalent
- Piggy back grommet: Fluorosilicone rubber or equivalent

### Environmental Performance

- Operating temperature – See cable table page 2
- Durability: 500 mating cycles

### Electrical

Impedance	75 Ohm
Frequency range	DC-12Ghz
Dielectric Withstanding Voltage	1000VRms
VSWR (Return Loss)	
DC-6GHz	1,22 (-20dB) Max
6-12Ghz	1,43 (-15dB) Max
Insulation resistance	10000MΩ Min
Center Contact resistance	5mΩ min
Outer Contact resistance	2,5mΩ min

### Markets & Applications



C4ISR



Navy



Ground Vehicle



Space



Applications:

› Camera

› Video acquisition

› Video recording

› In-Flight Entertainment

## Crimp Contacts

Contact Size	Cable	Frequency	T°C	Contact Part Number		Piggy Back Grommet
				Pin	Socket	
8	BELDEN 1855A	0 - 6GHz	-30°C - 125°C	612356	612355	900472
	PIC V73263	0 - 6GHz	-65°C - 200°C	612470	612465	900472
	BELDEN 4855R	0 - 12GHZ	-30°C - 125°C	612345	612340	900472
	GORE CXN3671	0 - 12GHZ	-65°C - 200°C	612460	612455	900472



## PC TAILS Contacts

Contact Size	Tail Length	Frequency	Contact Part Number	
			Pin	Socket
8	LI	0 - 12GHz	612404	N/A
		0 - 12GHz		N/A

\* Series III

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



## CABLE ASSEMBLY

Amphenol Socapex proposes standard cable assemblies rated 12G-SDI using our new generation of 75ohms contacts and Amphenol RF HD-BNC.

Cable P/N	Cable	Frequency	Length	Contact Part Number	
				HD 75ohms COAX	HD-BNC
<a href="#">212-A03166-00</a>	Belden 1855A	0 - 6GHz	0,25m	PIN	X
<a href="#">212-A03167-00</a>		0 - 6GHz	0,50m	PIN	X
<a href="#">212-A03168-00</a>		0 - 6GHz	1m	PIN	X
<a href="#">212-A03169-00</a>		0 - 6GHz	2m	PIN	X
<a href="#">212-A03170-00</a>		0 - 6GHz	4m	PIN	X
<a href="#">212-A03171-00</a>		0 - 6GHz	0,25m	SOCKET	X
<a href="#">212-A03172-00</a>		0 - 6GHz	0,50m	SOCKET	X
<a href="#">212-A03173-00</a>		0 - 6GHz	1m	SOCKET	X
<a href="#">212-A03174-00</a>		0 - 6GHz	2m	SOCKET	X
<a href="#">212-A03175-00</a>		0 - 6GHz	4m	SOCKET	X
<a href="#">212-A03176-00</a>	Belden 4855R	0 - 12GHz	0,25m	PIN	X
<a href="#">212-A03177-00</a>		0 - 12GHz	0,50m	PIN	X
<a href="#">212-A03178-00</a>		0 - 12GHz	1m	PIN	X
<a href="#">212-A03179-00</a>		0 - 12GHz	2m	PIN	X
<a href="#">212-A03180-00</a>		0 - 12GHz	4m	PIN	X
<a href="#">212-A03181-00</a>		0 - 12GHz	0,25m	SOCKET	X
<a href="#">212-A03182-00</a>		0 - 12GHz	0,50m	SOCKET	X
<a href="#">212-A03183-00</a>		0 - 12GHz	1m	SOCKET	X
<a href="#">212-A03184-00</a>		0 - 12GHz	2m	SOCKET	X
<a href="#">212-A03185-00</a>		0 - 12GHz	4m	SOCKET	X



Amphenol RF's line of 12G BNC and HD-BNC products are optimized for 4K Ultra HD Broadcast, providing fully intact signal transmission on a single channel. These connectors are designed for 12G-SDI video applications and come in a variety of PCB mounting and cable terminations. Peak performance can be reached when Amphenol RF 12G connectors are used as a mated pair.

Part number	Configuration
<a href="#">034-1018-12G</a>	HD-BNC Edgge Mount PCB Jack
<a href="#">034-1018-12G</a>	HD-BNC Straight PCB Jack, Bulkhead
<a href="#">034-1030-12G</a>	HD-BNC Right Angle PCB Jack
<a href="#">034-1065-12G</a>	HD-BNC Straight PCB Jack
<a href="#">034-1126-12G</a>	HD-BNC Straight PCB Jack, Surface Mount, Bulkhead



034-1018-12G



034-1065-12G

