



# VAN DAMME PRODUCT DATA SHEET

## VAN DAMME TRUE 75 OHM 3GHZ BNC & DIN 1.0/2.3 CONNECTORS

### Applications & Application Notes

- 3GHz crimp connectors for HD-SDI applications
- Turned nickel plated brass body, gold plated brass turned centre pin, PTFE insulator
- True 75 Ohm construction for precision impedance
- Return loss at 3GHz typically  $\geq 20\text{dB}$  – SMPTE 424M requirement is  $>10\text{dB}$

### Product Listing Summary

Stock Code	Description	Cable types
339-075-300	HD-SDI BNC cable male Serial DV75	Van Damme 278-075-000, 278-075-006
339-675-300	HD-SDI BNC cable male RG6/U solid	Van Damme 278-175-000, 268-475-000, 268-675-000; Belden 1694A
339-875-300	HD-SDI BNC cable male RG6/U stranded	Van Damme 268-175-000; Belden 1694F
339-975-300	HD-SDI BNC cable male RG59/U solid	Van Damme 278-975-000; Belden 1505A
339-275-300	HD-SDI BNC cable male RG59/U stranded	Van Damme 268-275-000; Belden 1505F
339-775-300	HD-SDI BNC cable male Miniature HD-SDI	Van Damme 278-775-000
339-075-400	HD-SDI DIN 1.0/2.3 cable male Serial DV75	Van Damme 278-075-000, 278-075-006

### Crimp Tooling summary

Van Damme recommend Greenlee Paladin Crimp tool frames and die sets. Available from VDC Trading Ltd. [www.vdctrading.com](http://www.vdctrading.com) under the stock codes shown

Crimp tool frames:

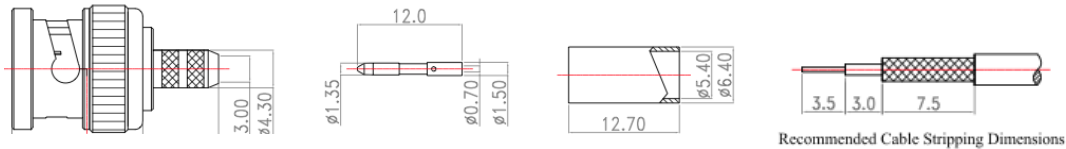
Paladin 1302 Universal crimp tool frame	VDC Stock Code 345-001-302	(Moderate volume use)
Paladin 8000 Universal crimp tool frame	VDC Stock Code 345-008-000	(High volume use)

Die set table:

Stock Code	Description		Paladin Die set	VDC Stock Code
339-075-300	HD-SDI BNC cable male Serial DV75		PA3703	345-103-703
339-675-300	HD-SDI BNC cable male RG6/U solid		PA3703	345-103-703
339-875-300	HD-SDI BNC cable male RG6/U stranded	Centre pin	PA3703	345-103-703
		Centre pin	PA2649	345-102-649
		Ferrule	PA2047	345-102-047
339-975-300	HD-SDI BNC cable male RG59/U solid		PA3703	345-103-703
			PA2649	345-102-649
339-275-300	HD-SDI BNC cable male RG59/U stranded		PA3703	345-103-703
339-775-300	HD-SDI BNC cable male Miniature HD-SDI	Centre pin	PA3703	345-103-703
		Centre pin	PA2649	345-102-649
		Ferrule	PA2699	345-102-699
339-075-400	HD-SDI DIN 1.0/2.3 cable male Serial DV75		PA3703	345-103-703

## Product Details

### 339-075-300 HD-SDI BNC cable male Serial DV75



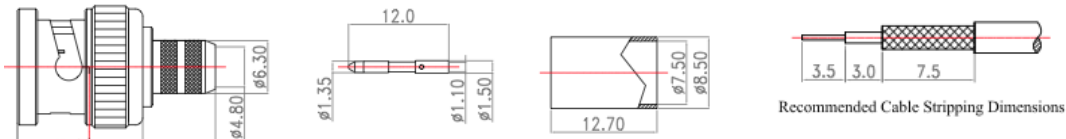
Applicable cables:

Van Damme 278-075-000 SDI Vision single coax LSZH Ecoflex  
 Van Damme 278-075-006 SDI Vision 6 way multicore coax LSZH Ecoflex

Conductor 0.60mm Dielectric diameter 2.80mm Overall diameter 4.50mm (0.6/2.8/4.5)

Paladin die set PA3703 centre pin 0.049" ferrule 0.213"

### 339-675-300 HD-SDI BNC cable male RG6/U solid



Applicable cables:

*Ferrule diameter will be changing to 8.30mm*

Van Damme 278-175-000 HD Vision Serial DVLL coax LSZH Ecoflex

Conductor 1.02mm Dielectric diameter 4.70mm Overall diameter 6.80mm (1.0/4.7/6.8)

Van Damme 268-475-000 HD Vision 4 way dynamic RG6/U coaxial multicore  
 Van Damme 268-675-000 HD Vision 6 way dynamic RG6/U coaxial multicore

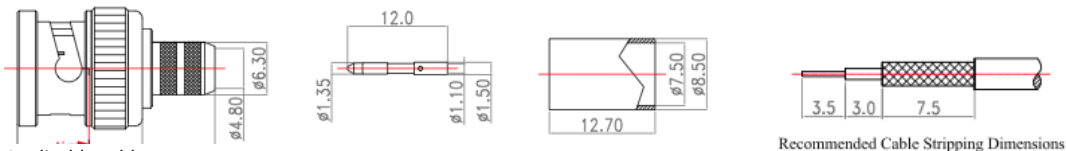
Conductor 1.02mm Dielectric diameter 4.70mm Overall diameter 7.00mm (1.0/4.7/7.0)

Belden 1694A low loss serial digital video cable

Conductor 1.02mm Dielectric diameter 4.57mm Overall diameter 7.01mm (1.0/4.6/7.0)

Paladin Die set PA3703 centre pin 0.049" ferrule 0.276"

### 339-875-300 HD-SDI BNC cable male RG6/U stranded



Applicable cables:

Van Damme 268-175-000 HD Vision flexible coax RG6/U

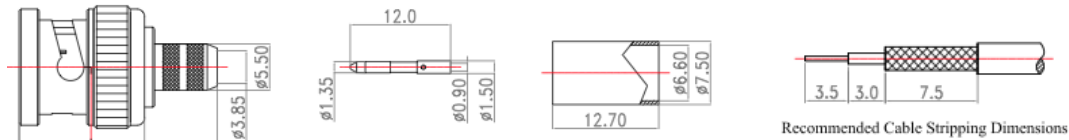
Conductor 19 x 0.20mm Dielectric diameter 4.57mm Overall diameter 7.00mm (1.0/4.6/7.0)

Belden 1694F flexible low loss serial digital video cable

Conductor 7 x 27AWG Dielectric diameter 4.57mm Overall diameter 7.01mm (1.0/4.6/7.0)

Paladin die set Centre pin PA3703 0.049" or PA2649 0.052"  
 Ferrule PA2047 0.315"

## 339-975-300 HD-SDI BNC cable male RG59/U solid



Applicable cables:

### Van Damme 278-975-000 HD Vision RG59/U coax LSZH

Conductor 0.81mm      Dielectric diameter 3.70mm      Overall diameter 5.90mm      (0.8/3.7/5.9)

### Belden 1505A low loss serial digital video cable

Conductor 0.81mm      Dielectric diameter 3.68mm      Overall diameter 5.92mm      (0.8/3.7/5.9)

Paladin Die set PA3703 centre pin 0.049" ferrule 0.255"

Paladin Die set PA2649 centre pin 0.052" ferrule 0.255"

## 339-275-300 HD-SDI BNC cable male RG59/U stranded



Applicable cables:

### Van Damme 268-275-000 HD Vision flexible coax RG59/U

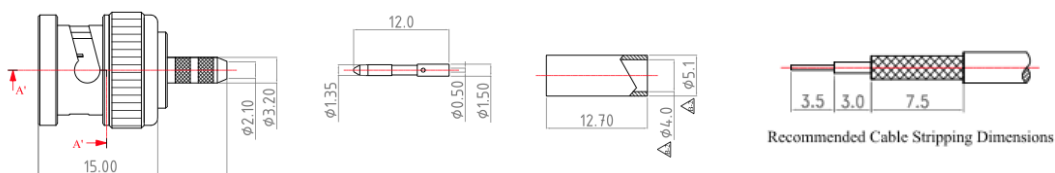
Conductor 19 x 0.16mm      Dielectric diameter 3.70mm      Overall diameter 6.15mm      (0.8/3.7/6.15)

### Belden 1505F flexible low loss serial digital video cable

Conductor 7 x 29AWG      Dielectric diameter 3.68mm      Overall diameter 6.15mm      (0.8/3.7/6.15)

Paladin Die set PA3703 centre pin 0.049" ferrule 0.276"

## 339-775-300 HD-SDI BNC cable male HD Vision Mini coax LSZH



Applicable cables:

### Van Damme 278-775-000 HD Vision Miniature coax LSZH

Conductor 0.41mm      Dielectric diameter 1.90mm      Overall diameter 3.10mm      (0.4/1.9/3.1)

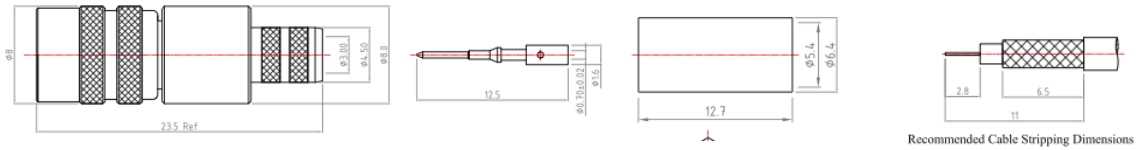
Crimp Size: Centre pin 0.049" to 0.052" (1.25mm - 1.32mm) Ferrule 0.178" (4.52mm)

Paladin die set      Centre pin PA3703 0.049" or PA2649 0.052"

Ferrule PA2699 0.178"

Note: Small BNC strain relief boots (RG174/RG179 type) will not work with this connector

## 339-075-400 HD-SDI DIN 1.0/2.3 connector Serial DV75



Applicable cables:

Van Damme 278-075-000 SDI Vision single coax LSZH Ecoflex  
 Van Damme 278-075-006 SDI Vision 6 way multicore coax LSZH Ecoflex

Conductor 0.60mm Dielectric diameter 2.80mm Overall diameter 4.50mm (0.6/2.8/4.5)

Paladin die set PA3703 centre pin 0.049" ferrule 0.213"

### Connector crimp dimensions summary

The following table lists the accurate crimp dimensions for the connector range should you wish to source your own tools, use a centre contact crimp tool or use a combination of alternative crimp dies.

NB 339-675-300 recommended ferrule crimp size is 0.289" - 0.276" crimp has been tested and approved with listed cable types. The diameter of the ferrule will be reduced from 8.50mm to 8.30mm for better compatibility with the 0.276" die. New stock is expected end of 2013 – start of 2014.

Stock Code	Description	Centre Pin		Ferrule	
		Inches	Mm	Inches	Mm
339-075-300	HD-SDI BNC cable male Serial DV75	0.051	1.30	0.217	5.51
339-675-300	HD-SDI BNC cable male RG6/U solid	0.051	1.30	0.289	7.34
339-675-300	<i>Smaller diameter ferrule version due end of 2013/start of 2014</i>			<i>0.278</i>	<i>7.06</i>
339-875-300	HD-SDI BNC cable male RG6/U stranded	0.051	1.30	0.315	8.00
339-975-300	HD-SDI BNC cable male RG59/U solid	0.051	1.30	0.255	6.48
339-275-300	HD-SDI BNC cable male RG59/U stranded	0.051	1.30	0.278	7.06
339-775-300	HD-SDI BNC cable male Miniature HD-SDI	0.051	1.30	0.178	4.52
339-075-400	HD-SDI DIN 1.0/2.3 cable male Serial DV75	0.052	1.33	0.213	5.41