

# C 015

## Circular connectors



# Note from the CEO



## Ladies and Gentlemen,

For over 75 years Amphenol has enjoyed success as the interconnection technology provider of choice to industry-leading companies around the world. One of our key strategic areas of focus has been and is the Industrial market. Our organization works with leading manufacturers across a wide range of applications - including Energy Generation & Distribution, Transportation, Heavy Equipment, Factory Automation, Wireless Outdoor, ChipCard Readers - enabling smarter, faster and better technologies to connect products to customer solutions.

The Industrial market footprint of Amphenol covers over facilities in more than 12 different European countries and more than 30 countries worldwide. Our successful expansion into new regions as well as new industrial applications is a direct reflection of our agile, entrepreneurial management team and our unwavering commitment to execute Amphenol's strategies for the benefit of our customers, shareholders and employees.

Thank you for partnering with Amphenol. Our entire organization is at your service.

A handwritten signature in black ink, appearing to read 'R. Adam Norwitt'. The signature is fluid and cursive, with a long horizontal stroke at the end.

R. Adam Norwitt  
President and CEO, Amphenol Corporation



# Make use of the best

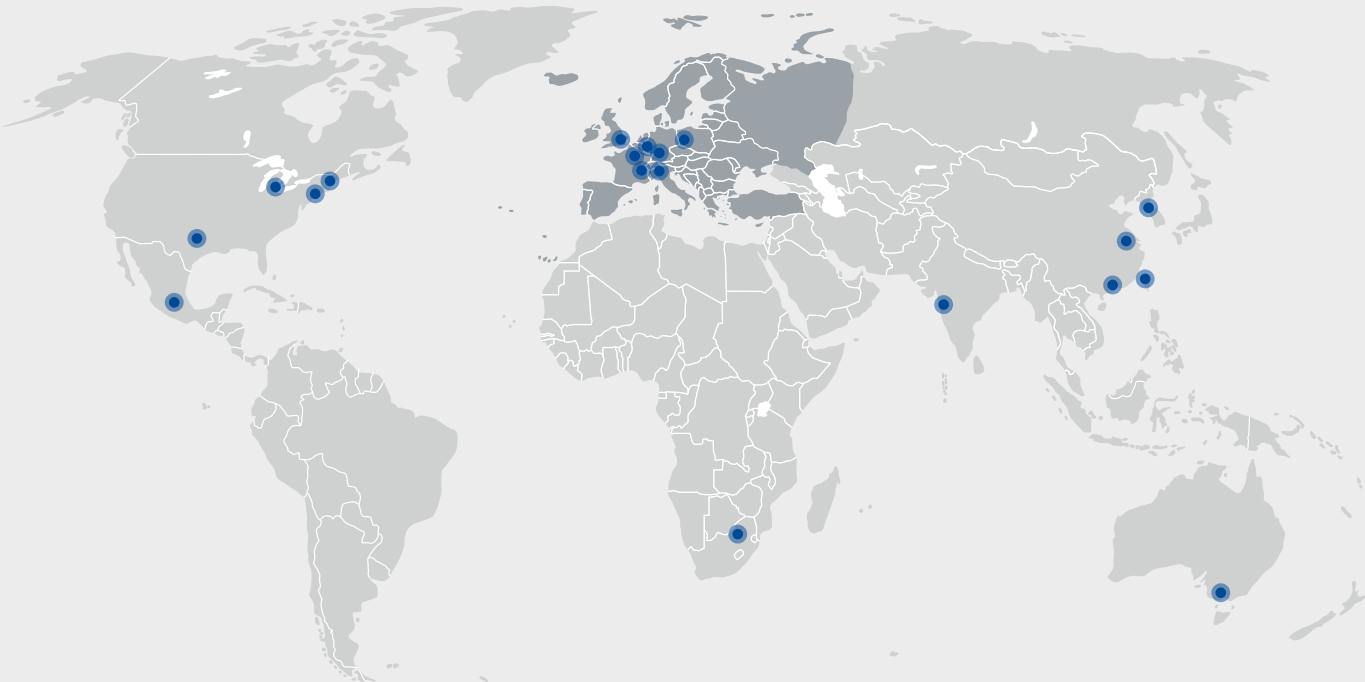
## Use our global resources

“Think global, act local!” Independently from where you are in Europe, we offer you our global expertise and great variety of products and technologies. And in comfort with your personal contact. Our numerous European offices are your access to our global resources.

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- |                |        |           |              |
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SECURITY, RELIABILITY AND COMFORTABLE SERVICE FROM ONE SOURCE.

# More time for important things: benefit from our service and diversity

Enjoy security, reliability and comfortable service from one source. INDUSTRIAL@AMPHENOL offers one of the most individual and most diversified service programmes in the market – exclusively for industrial customers. Access all possibilities of the Amphenol group through your personal expert adviser.



## WIDE PRODUCT RANGE

Take advantage of a choice of Amphenol products. Our broad product portfolio offers individual solutions from more than 85 member companies in the global Amphenol group.



## EXCLUSIVENESS AND FLEXIBILITY

One face to the customer: every inquiry is handled on an individual service level by your personal key account service partner. This ensures maximum transparency and best-in-class flexibility in the whole process.



## QUALITY

Interconnect systems need reliability, speed and flawless data transmission. We continuously test and guarantee the required standard in our products – and also in our personal services.



## INDIVIDUAL SOLUTIONS

Your project requires an individual solution that is not available off-the-shelf? As your think tank and discussion partner we provide engineering support and solution-oriented development for your tailor-made Amphenol product.



## SPEED AND AVAILABILITY

Smart and intelligent processes are the secret behind our service programme. Flexible planning and distribution, perfect logistics and highest availability are our key factors for best customer service.

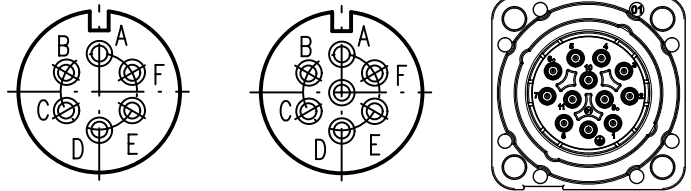


## GLOBAL KEY ACCOUNT SERVICE

Our key account service is your individual entrance to global know-how, products and services. More than 85 Amphenol companies around the world offer an extensive range of technologies and products. We offer access to our worldwide resources through one individual contact person.

**CIRCULAR CONNECTOR ACCORDING EN 175 000 (DIN 43 563)**

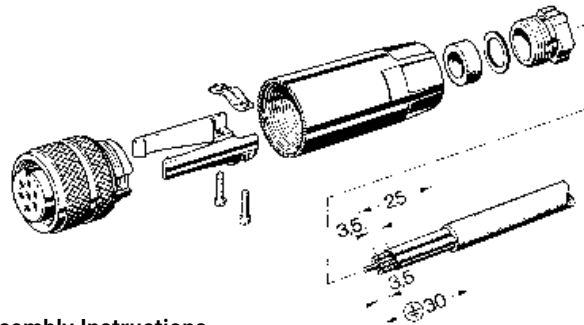
The six- and seven-pole circular connectors of the C 015 series are according to the requirements of EN 175 000. The series is distinguished by its stable design and easy handling. They are also compatible with connectors according to MIL-C-5015 of housing size 14S. Their main applications are continuous and proportional valves as well as measuring and control instrumentation.



Number of poles	Standard	6	6 + PE	11 + PE
Rated voltage	IEC 60664-1	150 VDC		25 VAC / 50 VDC
Rated surge voltage	IEC 60664-1	2500 V		800 V
Degree of contamination	IEC 60664-1	3		
Overvoltage category	IEC 60664-1	3		
Current-carrying capacity	IEC 60664-5-2	0,5 mm <sup>2</sup> , 6 A, +70 °C ambient temperature 1,5 mm <sup>2</sup> , 9 A, +70 °C ambient temperature		5 A, +40 °C ambient temperature
Termination technique		Cable connector: crimping /soldering; Receptacle: soldering, dip soldering		Dip solder
Connection cross section		Cable box: 0.14-0.5 mm <sup>2</sup> , 0.5-1.5 mm <sup>2</sup> ; Device connector: max. 1.5 mm <sup>2</sup>		n.a.
Contact surface		Ag		Au
Temperature range in operation		-40 °C / +100 °C		
Temperature range during assembly		-20 °C / +100 °C		
Test class	IEC 60068-1	40 / 100 / 56		
Interlock		Screws, tightening torque 1.5 Nm - 2.0 Nm		
Protection class	IEC 60529	IP 65		
Contact resistance	IEC 60512-2-1	≤ 5 mΩ		
Insulation resistance	IEC 60512-3-1	≤ 10 <sup>9</sup> Ω		
Contact carrier/Housing material		PA 6.6, fire behavior / (UL 94): V-O		
Housing/Locking ring material		Al		Die-cast zinc
Mechanical life time	IEC 60512-9-1	≥ 500 mating		
Total insertion force	IEC 60512-13-1	50 N		
Total pulling force	IEC 60512-13-1	50 N		

## C 015 Straight and right-angled cable connectors

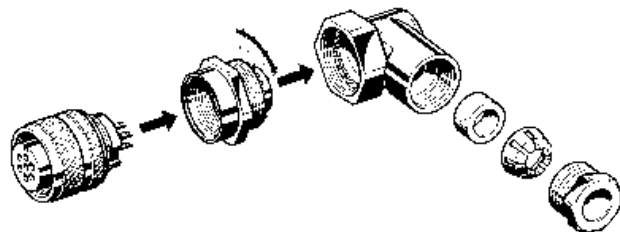
### FEMALE CABLE CONNECTOR



Assembly Instructions

Description	Customer drawing	Number of poles	Order number		Crimp termination
			Solder termination silver	Solder termination gold	
Female cable connector cable diameter: 8-10 mm		6 + PE	C 015 30D006 001 1	On request	C 015 10D006 001 1 <sup>1</sup>
		6 pol.	C 015 30D006 001 2	On request	C 015 10D006 001 2 <sup>1</sup>
Female cable connector cable diameter: 10-12 mm		6 + PE	C 015 30D006 002 1	On request	C 015 10D006 002 1 <sup>1</sup>
		6 pol.	C 015 30D006 002 2	On request	C 015 10D006 002 2 <sup>1</sup>

### ANGLED CONNECTORS



Assembly and dimensioned drawing

Description	Customer drawing	Number of poles	Order number		Crimp termination
			Solder termination silver	Solder termination gold	
Female cable connector cable diameter: 8-10 mm		6 + PE	C 015 30 F006 001 1	On request	C 015 10 F006 001 1 <sup>1</sup>
		6 pol.	C 015 30 F006 001 2	On request	C 015 10 F006 001 2 <sup>1</sup>
Female cable connector cable diameter: 10-12 mm		6 + PE	C 015 30 F006 002 1 <sup>1</sup>	On request	C 015 10 F006 002 1 <sup>1</sup>
		6 pol.	C 015 30 F006 002 2 <sup>1</sup>	On request	C 015 10 F006 002 2 <sup>1</sup>

Processing tools and crimp contacts on request.

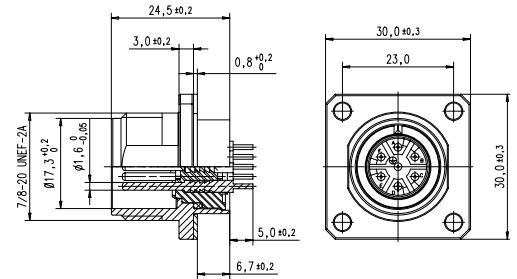
<sup>1</sup>Please order crimp contacts separately. See page 8.

## C 015 Male receptacle and crimp contacts for female cable connector

### MALE RECEPTACLE



With flat sealing



Description	Number of poles	Order number			
		Solder termination		Crimp termination	Dip solder termination
		silver	gold		
Device connector, dip solder connection	6 + PE	C015 50C006 100 1	-	-	-
	6 pol.	C015 50C006 100 2	-	-	-
Device connector, solder connection	6 + PE	C015 30C006 100 1	-	-	-
	6 pol.	C015 30C006 100 2	-	-	-
Device connector, plug contacts	II + PE	-	-	-	C015 50C0118001

### CRIMP CONTACTS FOR FEMALE CABLE CONNECTORS



Description	Contact diameter	Cross section	Packing unit	Pieces	Part number	Crimp tool
Socket contacts, contact surface silver	1,6 mm	0,14-0,5 mm <sup>2</sup>	Single contact	100	VN02 016 0003 (1)	TA 0700 203
			Strip contact	200	ZN02 016 0003 (1)	TA 0100 146
				2000	HN02 016 0003 (1)	-
		0,5-1,5 mm <sup>2</sup>	Single contact	100	VN02 016 0002 (1)	TA 0000 + TA 0000 163 + TA 0002 146 0001
			Strip contact	200	ZN02 016 0002 (1)	TA 0700 309
				2000	HN02 016 0002 (1)	-





## 6+PE female cable connector

- Suitable for all standard applications
- According EN 175 000 (DIN 43 563)
- Compatible with plug connector ACE MIL-C-5015 size 14S

### Applications

- Continuous and proportional valves
- Measuring and control instrumentation
- Directional control valves
- ...



TECHNICAL DATA

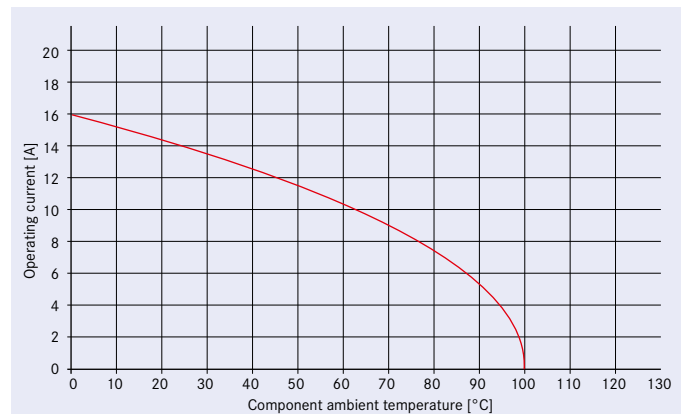
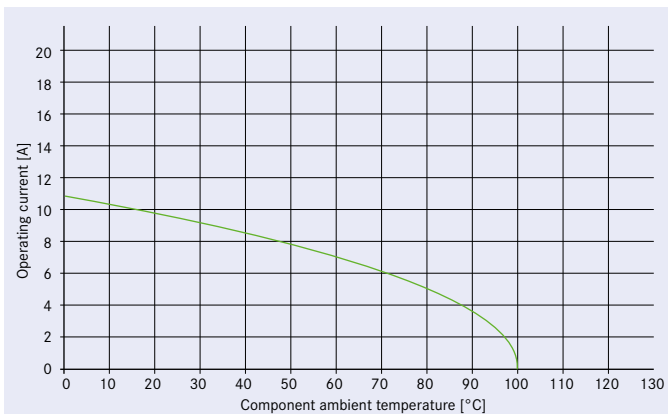
General characteristics values	Standard	Values
Number of poles		6+PE
Degree of contamination	IEC 664	3
Overvoltage category	IEC 664	III
Insulating material	IEC 664	II
Test voltage	IEC 664	1390 V
Current-carrying capacity	IEC 512-3	0,5mm <sup>2</sup> , 6 A, +70°C ambient temperature 1,5mm <sup>2</sup> , 9 A, +70°C ambient temperature
Insulating resistance	IEC 512-2	≥10 <sup>8</sup> Ω
Contact resistance	IEC 512-2	≤5 Ω
<b>Parts numbers</b>		
Single female cable connector	<b>C015 30D006 802 1</b>	
Female cable connector with unshielded 6m cable	<b>CA015 12 0 100 006</b>	
Female cable connector with unshielded 3m cable	<b>CA015 12 0 100 003</b>	

DERATING CURVE

Data according to DIN JEC 5 12 T3 all contacts in series plug connector 6+PE

**Cross section 0,5 mm<sup>2</sup>**

**Cross section 1,5 mm<sup>2</sup>**



**11+PE available on request**



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