

#### **Product Change Notification**

#### PCN-IFC-9589-2024

Business Unit	Product Line Code	Type of Change	Action	Date of Issue
IFC - Industrial	BF1	Product Change	Notify Distributors and	3/21/2024
Field Connectivity		Notification	Field	

The following Phoenix Contact products have been modified. Existing specifications will be met or exceeded. Please review and acknowledge this document and inform your personnel as needed.

#### **Description for Product Change Notification**

The A-code Ethernet product range will be upgraded to Advanced Shielding Technology (AST). As a result, the previously used crimp shielding sleeves will be replaced by the AST design. The overmold will be somewhat thinner and the product technically improved. Advanced Shielding Technology from Phoenix Contact is the innovative shielding concept for data, sensor and power cabling. The large-area, material-bonding 360° shield connection is unique on the market and optimizes the current design of M8 and M12 connectors. Furthermore, the M12 SPEEDCON technology will be replaced by the M12 standard full-thread coupling nut. The new descriptions of each articles are included in the attached excel sheet.

Stock Status				
Can existing stock still be used?	Yes			
Is mixture of stock acceptable?	Yes			

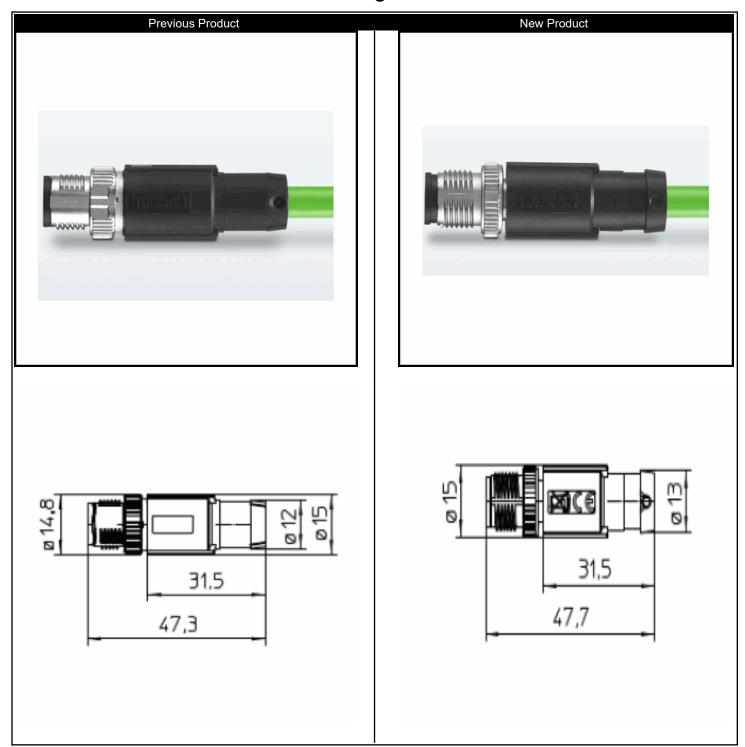
Transaction Dates	
Date modification goes into effect from Germany:	8/15/2024
Expected first shipment (from Phoenix Contact) of the modified products(s):	8/15/2024



INSPIRING INNOVATIONS

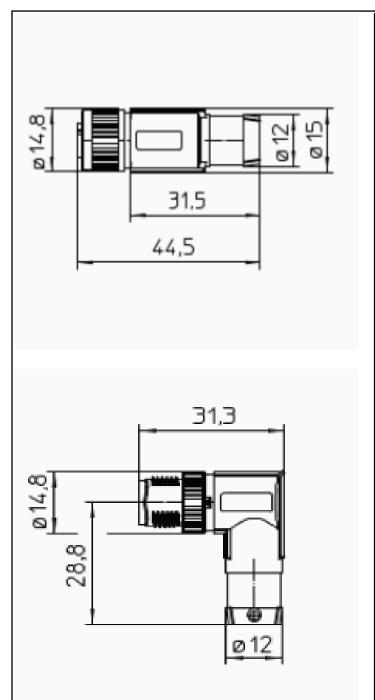
Phoenix Contact Inc. P.O. BOX 4100 Harrisburg, PA 17111-0100 Phone: 717-944-1300

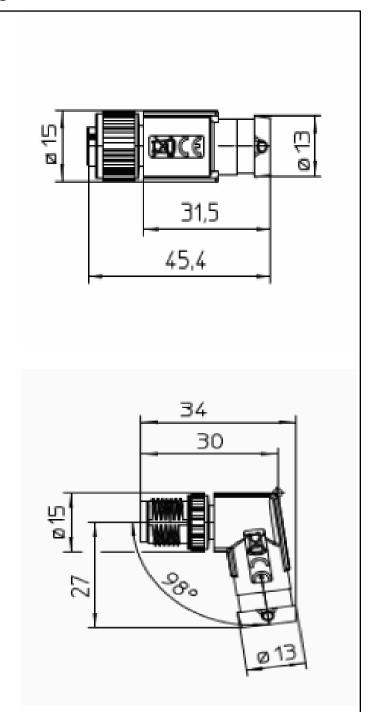
#### **Product Change Notification**





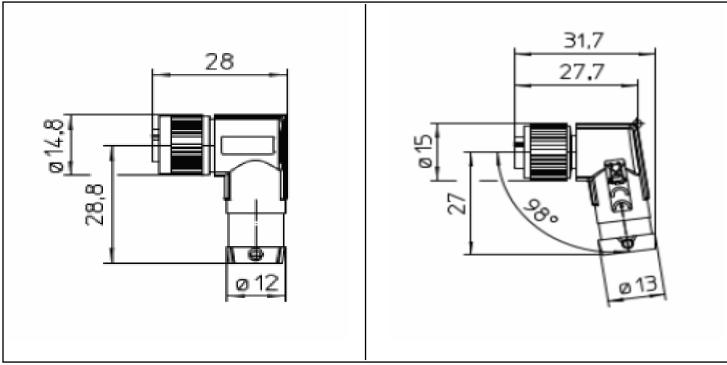
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Should you have any issues with the timeline or content of this product change, please contact Phoenix Contact using the information below. Customers should acknowledge receipt of the PCN within 30 days of delivery of the PCN; provided, however, that the failure to acknowledge receipt does not affect the product change or the effective date thereof.

#### **Contact Info:**

Yogi Patel ypatel@phoenixcontact.com

Thank you,

Jeremy Andrews

**Product Marketing Manager** 

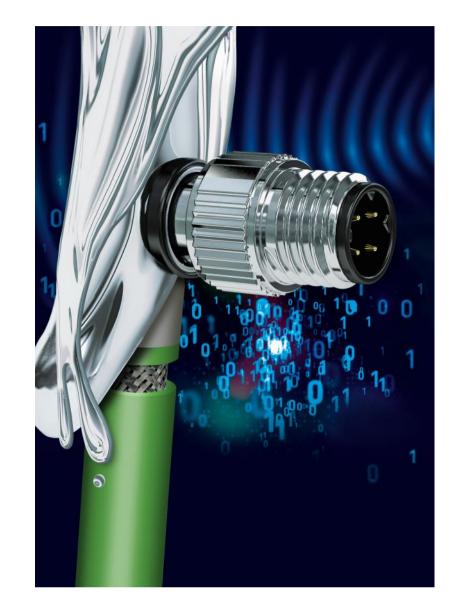


#### **Product Change Notification**

Part #	Type Description	
1407404	NBC-MS/ 1,0-94B SCO	
1407405	NBC-MS/ 2,0-94B SCO	
1407406	NBC-MS/ 5,0-94B SCO	
1407407	NBC-MS/10,0-94B SCO	
1407414	NBC-MS/ 1,0-94B/R4AC SCO	
1407415	NBC-MS/ 2,0-94B/R4AC SCO	
1407416	NBC-MS/ 5,0-94B/R4AC SCO	
1407417	NBC-MS/10,0-94B/R4AC SCO	
1407434	NBC-MS/ 1,0-94B/MS SCO	
1407435	NBC-MS/ 2,0-94B/MS SCO	
1407436	NBC-MS/ 5,0-94B/MS SCO	
1407438	NBC-MS/10,0-94B/MS SCO	
1407439	NBC- 1,0-94B/FS SCO	
1407440	NBC- 2,0-94B/FS SCO	
1407441	NBC- 5,0-94B/FS SCO	
1407442	NBC-10,0-94B/FS SCO	
1407443	NBC-FS/ 1,0-94B/R4AC SCO	
1407444	NBC-FS/ 2,0-94B/R4AC SCO	
1407445	NBC-FS/ 5,0-94B/R4AC SCO	
1407446	NBC-FS/10,0-94B/R4AC SCO	
1407463	NBC-MS/ 1,0-94B/FS SCO	
1407464	NBC-MS/ 2,0-94B/FS SCO	
1407465	NBC-MS/ 5,0-94B/FS SCO	
1407466	NBC-MS/10,0-94B/FS SCO	
1408659	NBC-MS-FS SCO-IE//	
1408664	NBC-FS-R4AC SCO-IE//	
1408665	NBC-FS SCO-IE//	
1408676	NBC-MS-MS SCO-IE//	
1408681	NBC-MS-R4AC SCO-IE//	
1408682	NBC-MS SCO-IE//	

Designed by PHOENIX CONTACT

# The new dimension of shielding for assembled M8 and M12 circular connectors





# Change of A-coded cable assemblies to Advanced shielding technology

Advanced Shielding Technology from Phoenix Contact is the innovative shielding concept for sensor/actuator cabling. The large-area, material-bonding 360° shield connection is unique on the market and optimizes the current design of M8 and M12 connectors.

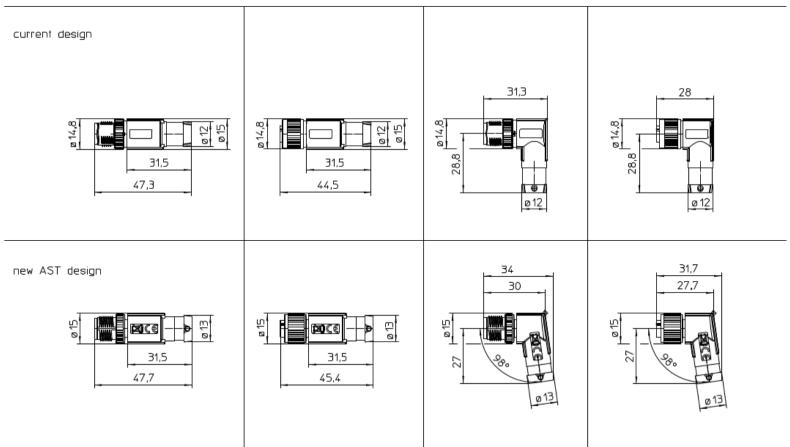
With Advanced Shielding Technology you are investing in reliable data, signal, and power transmission for the factory automation of the future.

The next slides show you the change of the current design of A-coded cable assemblies and describe the advantages of the unique Advanced Shielding Technology.



# Change of A-coded cable assemblies to Advanced shielding technology

#### Size of the connector heads





# Change of A-coded cable assemblies to Advanced shielding technology

#### **Speedcon to Standard M12 thread**



Current design



New design

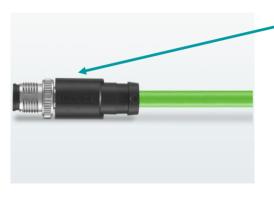


# Change of A-coded cable assemblies to Advanced shielding technology

#### **CE and WEEE mark**



Current design



New design



Additional to the brand logo of Phoenix Contact, the grip body gets the CE mark and the WEEE logo to be compliant with the european regulations.



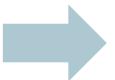
# Change of A-coded cable assemblies to Advanced shielding technology

#### **Article description from Speedcon to Standard M12**

In case of the change from Speedcon to Standard M12 knurl, the article description has to be changed.

#### Example:

NBC-MS/10,0-94B/FS SCO



NBC-M12MS/10,0-94B/M12FS

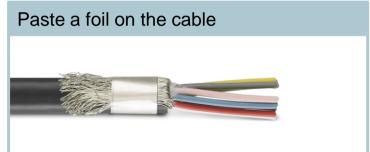
The new descriptions of each articles are included in the attached excel sheet.

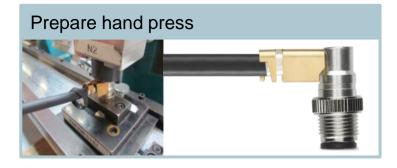


#### How it all started

### **Current shielding concept**

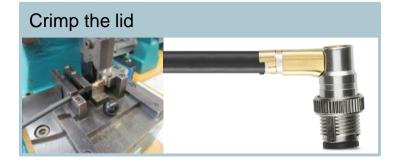




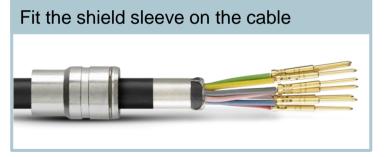














#### Presentation of the new shielding concept

### Realization





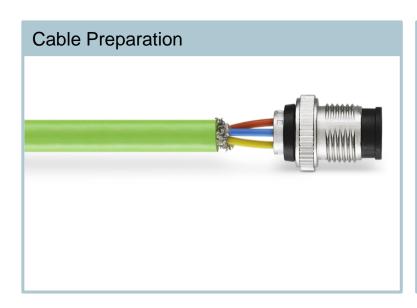
\*Please note that the realization regarding the coding is the same even M12 x-coded is shown in the illustrations



### Presentation of the new shielding concept

### Realization









The ideal shield sleeve does not require a crimp

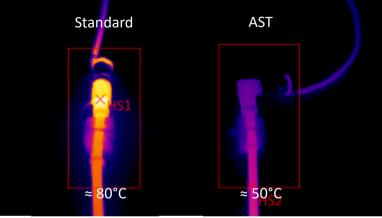


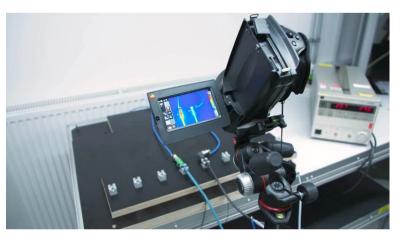


### **Totally protected**

If there is a short circuit in the machine parts, Advanced Shielding Technology can be used to enable a current to flow via the shield until the fuses are triggered. Thanks to the minimal generation of heat, the large-area shielding ensures greater safety and reduces the risk of fire.









# **Totally future-proof**

In the field of intelligent production plants and industrial networks, Advanced Shielding Technology realizes the future-proof transmission of high data volumes and continuously increasing transmission rates of up to 40 Gbps. The improved shield dissipation thus provides secure protection against electromagnetic interferences.



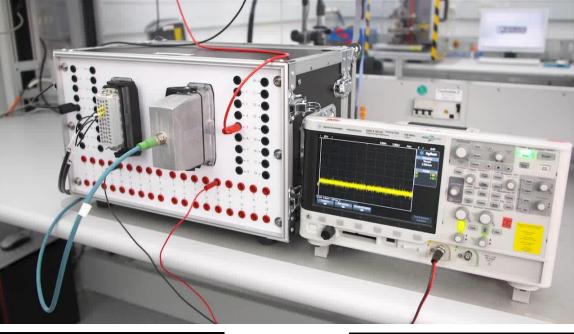


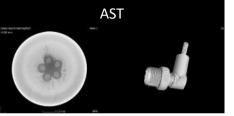


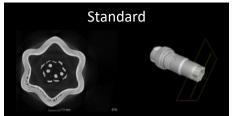
# **Totally reliable**

Advanced Shielding Technology guarantees shockand vibration-resistance at high mechanical loads in torsion, drag chain or robotic applications.











### **Totally resistant**

High voltages are briefly generated when switching inductive loads such as motors. Thanks to the continuous connection between the shielding braid and plug, assembled connectors with Advanced Shielding Technology are resistant to transient overvoltages and guarantee a higher level of system availability.







### **Totally robust**

Thanks to the robust connection and 360° shield cover, connectors with Advanced Shielding Technology will easily even withstand lightning strikes and current peaks up to 20 kA. They are thus particularly suitable for use in outdoor applications.







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The new dimension of shielding for assembled M8 and M12 circular connectors

Further information under: www.phoenixcontact.com/webcode/#2253



