

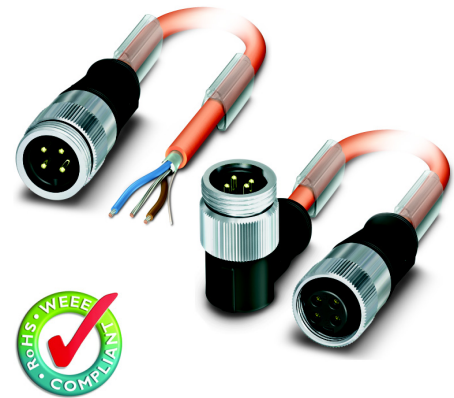
SAC-4P-MIN... Cordsets

Cordsets for Foundation Fieldbus and PROFIBUS PA Networks

PLUSCON

Data Sheet
2568_en_A

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1 Description

The SAC-4P-MIN... cordsets provide an easy method to assemble a Foundation Fieldbus or PROFIBUS PA network. The cordsets can withstand harsh environments with stainless steel couplers and PVC jackets. The high-quality materials allow use in the chemical, and food and beverage industries.

The pre-wired, plug-in connectors reduce field installation time. The Mini 7/8-in. plug-in connectors are overmolded to Type A cable for H1 physical media, as defined by IEC 61158-2 and ISA-S50.02 Part 2 Physical Layer standards.

The cable is listed as ITC and PLTC-ER cable, allowing installation without conduit for up to 15 m in certain instances, such as in drop connections to devices. By not installing conduit to every individual device, the cost and installation time can be further reduced.

These cordsets are available in various lengths with free, male and female straight, and male and female angled connectors. As pre-assembled cables, the cordsets meet IP67.

2 Features

- Meets Foundation Fieldbus and PROFIBUS PA cable requirements
- UL listed instrument tray cable (ITC) and power-limited extended range tray cable (PLTC-ER)
- Can be installed without conduit in some applications as specified in NEC Article 727
- Stainless steel connectors and molded construction provide corrosion resistance
- IP67 rating for use in harsh, industrial environments
- Complementary terminators and tees simplify complete network assembly
- Sunlight resistant and oil resistant
- RoHS-compliant



Make sure you always use the latest documentation.
It can be downloaded at www.download.phoenixcontact.com.
A conversion table is available on the Internet at
www.download.phoenixcontact.com/general/7000_en_00.pdf.



This data sheet is valid for all products listed on the following page:

3 Ordering Data

Products

Free end

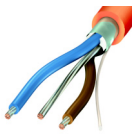




Male straight



Male angle



	Length	Order No.	Length	Order No.	Length	Order No.
Free end 			2 m	1429350	2 m	1429444
			5 m	1429363	5 m	1429457
			10 m	1429376	10 m	1429460
			15 m	1429389	15 m	1429473
			20 m	1429392	20 m	1429486
			25 m	1429402	25 m	1429499
			30 m	1429415	30 m	1429509
			40 m	1429428	40 m	1429512
			50 m	1429431	50 m	1429525
	Female Straight 			0.3 m	1429538	0.3 m
			0.5 m	1429554	0.5 m	1429677
			1.0 m	1429567	1.0 m	1429680
2 m		1429712	2 m	1429570	2 m	1429693
5 m		1429185	5 m	1429583	5 m	1429703
10 m		1429198	10 m	1429596	10 m	1429716
15 m		1429208	15 m	1429606	15 m	1429729
20 m		1429211	20 m	1429619	20 m	1429732
25 m		1429224	25 m	1429622	25 m	1429745
30 m		1429237	30 m	1429635	30 m	1429758
Female Angle 	40 m	1429240	40 m	1429648	40 m	1429761
	50 m	1429253	50 m	1429651	50 m	1429774
			0.3 m	1429787	0.3 m	1429907
			0.5 m	1429790	0.5 m	1429910
			1.0 m	1429800	1.0 m	1429923
	2 m	1429266	2 m	1429813	2 m	1429936
	5 m	1429279	5 m	1429826	5 m	1429949
	10 m	1429282	10 m	1429839	10 m	1429952
	15 m	1429295	15 m	1429842	15 m	1429965
	20 m	1429305	20 m	1429855	20 m	1429978
25 m	1429318	25 m	1429868	25 m	1429981	
30 m	1429321	30 m	1429871	30 m	1429994	
40 m	1429334	40 m	1429884	40 m	1430006	
50 m	1429347	50 m	1429897	50 m	1430019	

For additional ordering information, visit www.phoenixcontact.com

Accessories

Description	Type	Order No.	Pcs./Pkt
Junction Tee , 4-pos. 7/8-in. connector, for use in Foundation Fieldbus or PROFIBUS PA	SAC-4P-MINT/2XMIN FF VA	1430035	1
Terminator , 4-pos. 7/8-in. connector, for use in Foundation Fieldbus or PROFIBUS PA	SAC-4P-MINMS FF-TR VA	1430023	1

4 Technical Data

Electrical Data

Rated current (cordset)	5.2 A
Rated voltage	300 V
Rated contact current	8.0 A
Contact resistance	< 5 mΩ

Mechanical Data

Number of conductor pairs	1
Conductor color	Blue & orange
Conductor construction	18 AWG stranded
Shield	100% coverage; aluminum foil/polyester tape
Shield drain	20 AWG stranded; tinned copper
Connector housing material	TPU
Overmold material	PUR
Overmold color	Black
Coupling nut material	Stainless steel
Coupling nut thread size	7/8"-16UNF
Contact material	Gold plated over brass
Jacket material	PVC
Jacket color	Orange (optional blue)
Cable diameter - nominal	7.42 mm
Minimum bend radius	73.66 mm
Operating temperature	-40 to 105°C

Cable Approval/Conformance

CE-compliant	Yes
RoHS-compliant	Yes
Environmental	IP67 NEMA 1, 3, 4, 6P
Flame resistance	Cable tested to UL 1685
NEC(UL)	CM, ITC, PLTC-ER
CEC(cUL)	CM

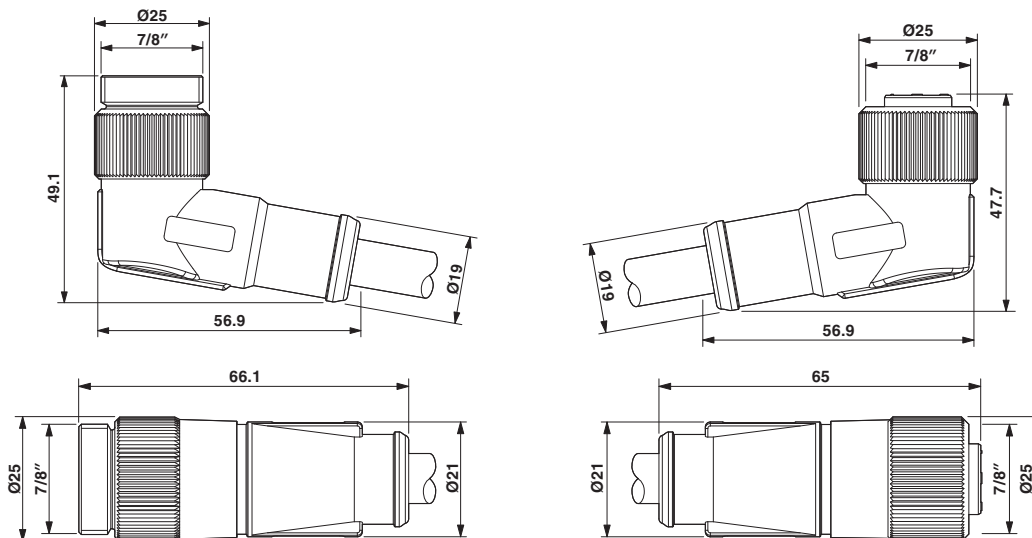


Figure 1 Dimensions