



## Foundation Fieldbus ISA/SP-50 Profibus PA Type A

### Application:

Foundation™ Field bus is used in intrinsically area, especially in the field of Process Automation. A single pair 18AWG Bi-Directional digital Fieldbus cable for type A applications (31.25 KBits/sec) available in PVC, LSHF and SWA versions. Anti-termite and anti-vermin foundation fieldbus cable is also available.



### Construction:

Type	Foundation Fieldbus ISA/SP-50 Profibus PA Type A
Inner Conductor	Tinned copper conductors 18(7)AWG 0.88mm <sup>2</sup>
Conductor Insulation	Polyolefin/Foamed PE with skin PE
Stranding Element	-
Shielding	Aluminium /polyester foil
Drain Wire	(20AWG) tinned copper
Outer Jacket Material	PVC
Core Identification	White & Black
Sheath Colour	Orange



## Electrical Data:

Characteristic Impedance@31.25KHz	100 $\Omega$ ±20 $\Omega$	
Conductor resistance	24 Ohm/km @ 20°C	
Working Voltage	Max: 300V	
Test Voltage	1.5KV	
Nominal attenuation	39KHz	<3 dB/km

## Technical Data:

Weight	approximately 85 kg/km/ 246 kg/km(SWA)	
Min. Bending Radius (Laying)	15 x OD mm	
Operating Temp.Range, min.	- 25 °C	
Operating Temp.Range, max.	+80 °C	

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## Foundation Fieldbus ISA/SP-50 Type B

### Application:

Foundation™ Field bus is used in intrinsically area, especially in the field of Process Automation. A single pair 22AWG Bi-Directional digital Fieldbus cable for type B applications (31.25 KBits/sec) are available in PVC, LSHF and SWA versions. Anti-termite and anti-vermin foundation fieldbus cable is also available.



### Construction:

Type	Foundation Fieldbus ISA/SP-50 Type B
Inner Conductor	Tinned copper conductors 22AWG 0.34mm <sup>2</sup>
Conductor Insulation	Polyolefin/Foamed PE with skin PE
Stranding Element	-
Shielding	Aluminium /polyester foil
Drain Wire	(22AWG) tinned copper
Outer Jacket Material	PVC
Core Identification	White & Black
Sheath Colour	Orange



## Technical Information:

Characteristic Impedance@31.25KHz	100 $\Omega$ ±20 $\Omega$	
Conductor resistance	56.0Ohm/km @ 20°C	
Working Voltage	300V	
Test Voltage	1.5KV	
Nominal attenuation	39KHz	<3 dB/km

## Technical Data:

Weight:	approximately 53 kg/km/ 213 kg/km(SWA)
Min. Bending Radius (Laying)	15 x OD mm
Operating Temp.Range, min.	- 25 °C
Operating Temp.Range, max.	+80 °C

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## Foundation Fieldbus ISA/SP-50 High Speed

### Application:

Foundation™ Field bus is used in intrinsically area, especially in the field of Process Automation. A high speed single pair 22AWG Bi-Directional digital Fieldbus cable for 1.0 & 2.5MBit/sec applications available in PVC, LSHF and SWA versions. Anti-termite and anti-vermin foundation fieldbus cable is also available.



### Construction:

Type	Foundation Fieldbus ISA/SP-50 High Speed
Inner Conductor	Tinned copper conductors 22(7)AWG 0.34mm <sup>2</sup>
Conductor Insulation	Foamed polyolefin
Stranding Element	-
Shielding	Aluminium /polyester foil
Drain Wire	(22AWG) tinned copper
Outer Jacket Material	PVC
Core Identification	White & Black
Sheath Colour	Orange



## Technical Information:

Characteristic Impedance@1MHz	150 $\Omega$ $\pm$ 10 $\Omega$	
Conductor resistance	56.0 Ohm/km @ 20°C	
Working Voltage	300V	
Test Voltage	1.5KV	
Attenuation	39 KHz	<3 dB/km

## Technical Data:

Weight	approximately 65 kg/km/ 287 kg/km(SWA)
Min. Bending Radius (Laying)	15 x OD mm
Operating Temp.Range, min.	- 25 °C
Operating Temp.Range, max.	+80 °C

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