

# UNITRONIC® BUS BlueFlex™

For Data Highway and Data Highway+ Bus Systems; Continuous Flex Applications; 78 Ω



UNITRONIC® BUS BlueFlex™ is designed for use in Rockwell/Allen Bradley DH, DH+, and Remote I/O networks. BlueFlex™ is constructed to withstand continuous flex applications where EMC conditions are pervasive.

## Construction

**Conductors:** Finely stranded tinned copper

**Insulation:** Electronic-grade flexible TPE

**Shielding:** Overall tape shield; flexible tinned copper braid (85% coverage)

**Jacket:** PVC; blue

## Recommended Applications

Industrial automation and process control field networks; sensors; valves; gauges; barcode readers; drives and operator interfaces.

## Application Advantage

- Signal integrity in continuous motion applications
- Flame- and oil-resistant jacket
- Flexible for ease of routing

## Approvals



Cable Attributes		page 640		Complete the Installation	
OIL	OR-01	FLAME	FR-02		SKINTOP® MS-SC page 516
MOTION	CF-01	MECH.	MP-01		

## Technical Data

<b>Minimum Bend Radius:</b>	- for stationary use: 5 x cable diameter	- for continuous flexing: 12 x cable diameter	<b>Characteristic Impedance:</b>	78 Ω
<b>Temperature Range:</b>	-20°C to +80°C		<b>Nominal Capacitance:</b>	17 pF/ft
<b>Nominal Voltage:</b>	300V		<b>Color Code:</b>	Blue/natural
<b>Test Voltage:</b>	3000V		<b>Approvals:</b>	UL: AWM 2661 Attributes: NFPA 79 Additional: RoHS

Part Number	Conductor Description (AWG/Pair)	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
3649FD	20 AWG/1pr	0.242	6.15	14	33	53112210

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section. If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question. For current information go to our website.