

# UNITRONIC® BUS DeviceNet™ FD Gray

For DeviceNet bus systems; continuous flex applications; 120 Ω



UNITRONIC® BUS DeviceNet FD cables provide reliable data and power transfer between industrial automation devices like sensors, actuators & PLCs. The cables are designed to perform in harsh chemical & mechanical environments and are in full compliance with ODVA specifications.

## Recommended applications

DeviceNet bus systems; cable tracks and moving machine parts, automation devices like sensors, actuators, PLCs, and PCs

## Rate table

Communication rate	Maximum length: trunk cable				Maximum length: drop cable			
	THICK		THIN		THICK		THIN	
	ft	m	ft	m	ft	m	ft	m
125 Kbps	1640	500	328	100	512	156	20	6
250 Kbps	820	250	328	100	256	78	20	6
500 Kbps	328	100	328	100	128	39	20	6


Cable attributes		page 648	
OIL	OR-01	FLAME	FR-03
MOTION	CF-02*	MECH.	MP-01

Complete the installation



SKINTOP® MS-SC page 522

ÖLFLEX® CONNECT solution



DeviceNet™ cordsets page 631

## Construction

**Conductors:** stranded tinned copper

**Insulation:** power conductors: PVC • data conductors: polyethylene

**Shielding:** pairs: tri-laminated foil shield (100% coverage)  
• tinned copper drain wire; overall foil wrap and braid (65% coverage)

**Jacket:** PVC; gray

## Application advantage

- Cable can supply device with power and data, wiring is minimized
- Full compliance with ODVA specifications
- Communication rate up to 500 Kbps
- Oil-resistant PVC jacket

## Approvals



## Technical data

<b>Minimum bend radius:</b> - for continuous flexing: 10 x cable diameter	<b>Color code:</b> - power pair: red & black - data pair: blue & white
<b>Temperature range:</b> -20°C to +75°C	<b>Approvals:</b> UL: CL2 CM (6002) Canada: CSA AWM (6001) CSA CMG (6002) *UL Verified ID A522492: Continuous Flex Test Method Verified
<b>Nominal voltage:</b> 300V	
<b>Characteristic impedance:</b> 120 Ω	
<b>Nominal capacitance:</b> 12 pF/ft	

Part number	Type	Conductor description	Nominal outer diameter		Copper weight lbs/mft	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
			in	mm			
6001	Thick	18 AWG/1pr + 14 AWG/1pr	0.468	11.9	60	145	53112240
6002	Thin	24 AWG/1pr + 22 AWG/1pr	0.283	7.2	23	43	53112210

DeviceNet is a trademark of Open DeviceNet Vendor Association, Inc. 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.