

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 640	
OIL	OR-01	FLAME	FR-03
MOTION	CF-02	MECH.	MP-01

Complete the Installation	
	SKINTOP® MS-SC page 516

ÖLFLEX® CONNECT Solution	
	DeviceNet™ Cordsets page 623

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

Minimum Bend Radius:
- for continuous flexing: 10 x cable diameter

Temperature Range: -20°C to +75°C

Nominal Voltage: 300V

Characteristic Impedance: 120 Ω

Nominal Capacitance: 12 pF/ft

Color Code:
- Power pair: Red & black
- Data pair: Blue & white

Approvals:
UL: CL2
CM (6002)
Canada: CSA AWM (6001)
CSA CMG (6002)

Part Number	Type	Conductor Description (AWG/Pair)	Nominal Outer Diameter		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
			(in)	(mm)			
Continuous Flex							
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