

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

Technical data

Minimum bend radius: - for continuous flexing:	10 x cable diameter	Color code: - power pair:	red & black
Temperature range:	-20°C to +75°C	- data pair:	blue & white
Nominal voltage:	300V	Approvals:	UL: CL2 CM (6002) Canada: CSA AWM (6001) CSA CMG (6002)
Characteristic impedance:	120 Ω		
Nominal capacitance:	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

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

