

3077F Paired - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable



Description:

22 AWG stranded (7x30) tinned copper conductors, polyolefin insulation, Beldfoil® shield (100% coverage), tinned copper drain wire, PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	1		
Total Number of Conductors	2		
AWG	22		
Stranding	7x30		
Conductor Diameter	.030 in.		
Conductor Material	TC - Tinned Copper		
INSULATION:			
Insulation Material	PO - Polyolefin		
Lay Length	1.50 in.		
Pair Color Code Chart :			
Number	Color		
1	Blue & Orange		

OUTER SHIELD:

Outer Shield Material Trade Name	Beldfoil®
Outer Shield Type	Таре
Outer Shield Material	Aluminum Foil-Polyester Tape
Outer Shield %Coverage	100 %
OUTER SHIELD DRAIN WIRE :	
Outer Shield Drain Wire AWG	20
Outer Shield Drain Wire Stranding	7x28
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper
OUTER JACKET:	
Outer Jacket Material	PVC - Polyvinyl Chloride
OVERALL NOMINAL DIAMETER:	
Overall Nominal Diameter	.196 in.



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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +105°C
UL Temperature Rating	105°C
Bulk Cable Weight	18 lbs/1000 ft.
Max. Recommended Pulling Tension	27 lbs.
Min. Bend Radius (Install)	2.2 in.
APPLICABLE SPECIFICATIONS AND AGENCY	Y COMPLIANCE:
APPLICABLE STANDARDS:	
NEC/(UL) Specification	PLTC, CM, ITC
CEC/C(UL) Specification	СМ
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
FLAME TEST:	
UL Flame Test	UL1685 UL Loading
PLENUM/NON-PLENUM:	
Plenum (Y/N)	Ν

ELECTRICAL CHARACTERISTICS:

Unaveraged Impedance :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Unaveraged Impedance (Ohms)	
	.03125			100	
Nom. Inductance		.20 µH/ft			
Nom. Capacitance Conductor to Shield @ 1 KHz		44.0 pF/ft			
Nom. Mutual Capacitance @ 1 KHz		23.5 pF/ft			
Maximum Capacitance Un	balance @ 1 KHz	1.2 pF/ft			
Nominal Velocity of Propa	gation	66 %			
Nom. Conductor DC Resistance @ 20 Deg. C		17.1 Ohms/1000 ft			
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C		11.4 Ohms/1000 ft			
Nom. Attenuation (dB/100	ft) :				
D:					

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	.039			.14

Max. Attenuation (dB/100 ft.) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 ft.)
	.039			.152
Max. Operating Voltage - UL		300 V RMS		

Max. Recommended Current :



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Description	Max. Recommended Current
Per Conductor	2.5 Amps
	01 05 WD'r /

Other Electrical Characteristic 2

31.25 KBits/sec

NOTES:

Notes

Tape around pair has shorting fold. CPE & LSOH Jacket optional.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3077F 0031000	TWPR #22 PP FS PVC	1000	23	ORANGE	C N
3077F 003500	TWPR #22 PP FS PVC	500	11	ORANGE	C N

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

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