

FOUNDATION FIELDBUS CABLES

A Foundation Fieldbus Network is a digital, bi-directional, multi-drop communication link for multiple intelligent field devices and automation systems at a communications rate of 31.25 kB/s. Depending mainly on the current requirement of each device, up to 32 sensors and actuators are possible on a fieldbus link with a maximum transmission distance of 1900m. Fieldbus is the process industry digital replacement for analog 4-20mA transmission of process variables.



FEATURES

- Optional insulated green bonding conductor
- Optional overall tinned copper braid for low frequency shielding effectiveness
- Various jacket colours including:
 - Orange UV protected Jacket (STANDARD)
 - Blue for intrinsically safe applications
 - Black with an integral or printed orange stripe
- Blue and orange alpha numeric number coded pairs
- Suitable for use in hazardous locations

CONSTRUCTIONS

- 18, 16 and 14 AWG stranded tinned copper conductors
- Single or multiple aluminum/polyester shielded pairs (2 to 24)
- Overall aluminum/polyester shield with tinned copper drain wire
- XLPO Insulation rated 105C dry / 90C wet
- PVC, CPE, Hypalon® or LSZH jacket options
- Aluminum, Galvanized Steel Interlocked or Served Galvanized Steel Wire armor options
- Marine/Shipboard available with a bronze or tinned copper braid

APPROVALS

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| • Foundation Fieldbus spec. FF-844, Type "A", H1 | • CSA ACIC Cable - HLBCD - C22.2 #174 & C22.2 #239 |
| • ISA SP-50 and Fieldbus spec. IEC 61158-2 | • UL ITC/PLTC-ER - UL 2250 & UL 13 |
| • CSA Tray Cable – TCBCD C22.2 #230 | • UL TC-ER - UL 1277 |
| • SHIPBOARD - IEEE 1580 & IEC 60092-350 | • UL MC - UL 1569 |

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	CSA	UL
CHARACTERISTICS:		
FLAME RETARDANT (FT4/IEEE 1202)	✓	✓
SUNLIGHT RESISTANT	✓	✓
WET RATED	✓	✓
-40 COLD IMPACT	✓	UPON REQUEST
DIRECT BURIAL	✓	✓
EXPOSED RUNS	-	✓
ELECTRICAL CHARACTERISTICS:		
IMPEDANCE (OHMS)	100 ± 20	100 ± 20
ATTENUATION @39 KHZ (dB/km)	<3	<3
CAPACITANCE UNBALANCE TO SHIELD (pF/m)	<4	<4
VOLTAGE RATINGS:		
300V	ACIC OR TC	ITC/PLTC-ER
600V	ACIC OR TC	MC/TC-ER
ARMORING OPTIONS:		
ALUMINUM INTERLOCK ARMOR	✓	✓
STEEL INTERLOCK ARMOR	✓	✓
STEEL WIRE SERVED ARMOR	✓	300V ONLY
JACKETING OPTIONS:		
PVC JACKET	✓	✓
PVC LAG JACKET	INTERLOCKED ARMOR ONLY	✓
LSZH JACKET	INTERLOCKED ARMOR ONLY	✓
CPE JACKET	-	✓
CSPE (HYPALON®) JACKET	-	✓
INSULATION OPTIONS:		
XLPO INSULATION	✓	✓
SHIELDING OPTIONS:		
ISOS ALUMINUM MYLAR	✓	✓
ISOS ALUMINUM MYLAR WITH OVERALL TINNED COPPER BRAID	✓	✓

FOR MORE INFORMATION ON DUAL RATED FOUNDATION FIELDBUS CABLES PLEASE CONTACT YOUR SALES REPRESENTATIVE.