

# Instrumentation Fire Resistant 600V 6x2x1.0 mm<sup>2</sup> Individual & Overall Shielded & Armored HFFR Cable

## BC/CL2/MT2/XLPE/F/FTP/HFFR/SBA/HFFR/600V/80C INSTRUMENTATION & SIGNAL

### P/N 8I1JM06101

**INDUSTRY**

### Applications

Process control industry, Hazardous areas, Short-range low-frequency signals, Harsh environments, Class 1 Division 2



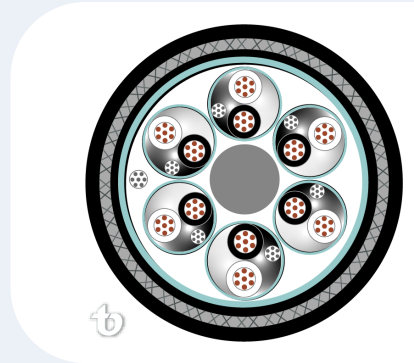
Outer Jacket Material  
HFFR



Outer diameter  
29.4 mm nom.



Weight  
1067 kg/km



### General Construction

6 Individually shielded twisted pairs are cabled together and overall foil shielded. Inner jacket followed by a steel braid armor and an outer jacket completes the cable structure. This is a fire resistant cable, designed to maintain circuit integrity under fire.

### Design & Materials

Conductor Material	Annealed Bare Copper
Conductor Construction	7x0.43 mm
Insulation Material	XLPE + Fire Resistant Tape
Insulation Thickness (mm)	0.75
Insulation O.D. (mm nom)	3.8
Conductor Unit Identification	Numbered
Conductor Color Code	Black x White
Ind. Shield Material	Aluminum/Polyester Foil
Ind. Shield Design	100% Coverage
Drain-Wire 1 Material	Annealed Tinned Copper
Drain-Wire 1 Construction	Stranded
Drain-Wire 1 Size (AWG)	20
Overall Shield Design	100% Coverage
Overall Shield Material	Aluminum/Polyester Foil
Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-Wire Size (AWG)	18
Overall Drain-wire Construction	Stranded
Inner Jacket Material	HFFR

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Inner Jacket Thickness (mm nom)	1.6
Armoring	Braided Galvanized Steel
Total Number Of Conductors	12
Rip-Cord	Yes
Outer Diameter (mm nom)	29.4
Outer Jacket Thickness (mm nom)	1.6
Outer Jacket Color	Black
Marking	Teldor Standard Per request
Outer Jacket Material	HFFR
Conductor Cross Section (mm <sup>2</sup> )	1.0
Armor Coverage (% min)	90

**Performance**

Max. DC Resistance (Ω/km@20°C)	18.1
Dielectric Strength (V/minute)	2000
Dielectric Strength to Shield (V/minute)	1000
Voltage Rating (V)	600
Min. Bend Radius (mm)	Dx12
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+80
UV Resistance	Yes
Fire Resistance	Yes

**Standards**

Flammability Rating  
 IEC 60331-21  
 IEC 60332-1  
 IEC 60332-3-22  
 IEC 60754-1/2  
 IEC 61034-1/2  
 UL 1581 VW-1

Applicable Standards  
 IEC 60228  
 RoHS 3 2015/863/EU



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