

# Instrumentation 300V 8x2x12 AWG 300V F/FTP Fire Resistant Cable CL2/BC/MT/XL-HFFR/BKxWT/FF/XL-HFFR POWER & CONTROL P/N 8C23H08103

## INDUSTRY

### Applications

Process control industry, Indoor, Outdoor, Class 1 Division 2



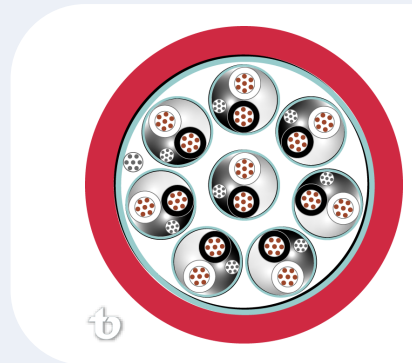
Outer Jacket Material  
XL-HFFR



Outer diameter  
27.5 mm nom.



Weight  
1350 kg/km



### General Construction

PLTC/ITC Cable complies with UL 13 and UL 2250 standards.

8 Foil shielded twisted pairs are cabled together, overall foil shielded and outer jacketed.

### Design & Materials

Conductor Material	Annealed Bare Copper
Conductor Size (AWG)	12
Conductor Construction	7x0.81 mm
Insulation Material	XL-HFFR + Fire Resistant Tape
Insulation Thickness (mm)	0.55
Insulation O.D. (mm nom)	4.5
Pair Identification	Numbered
Conductor Color Code	Black x White
Lay Length (mm)	60
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)	18
Overall Shield Design	100% Coverage
Overall Shield Material	Aluminum/Polyester Foil
Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-Wire Size (AWG)	16

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INDUSTRY

Overall Drain-wire Construction	Stranded
Total Number Of Conductors	16
Total Number Of Conductor Units	8
Outer Jacket Thickness (mm nom)	2.1
Outer Jacket Color	Red
Total Copper Weight (kg/cable km)	628.3
Marking	Per request

Performance

Max. Operational Tension (N)	2880
Max. DC Resistance ( $\Omega$ /km@20°C)	5.64
Mutual Capacitance - Core to Core (pF/m)	55
Inductance	0.65
Dielectric Strength (V/minute)	2000
Dielectric Strength to Shield (V/minute)	1000
Voltage Rating (V)	300
Min. Bend Radius (mm)	220
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+90
UV Resistance	Yes
Fire Resistance	Yes

Standards

Flammability Rating  
IEC 60331-11  
IEC 60332-1  
IEC 60332-3  
IEC 60754-1/2  
IEC 61034-1/2

Applicable Standards  
RoHS 3 2015/863/EU



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