



**Part Number:** 83662

Audio/Control/Instrumentation, (12) 18 AWG (19x30)  
TC, FEP/FEP, Foil+TC Braid Shld, CMP

## Product Description

Twelve 18 AWG stranded (19x30) tinned copper conductors, plenum, Teflon® (FEP) insulation, overall Beldfoil® shield (100% coverage) plus tinned copper braid shield (85% coverage), Teflon® (FEP) jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

AWG	Stranding	Material	No. of Conductors
18	19x30	TC - Tinned Copper	12
<b>Total Number of Conductors:</b>			12

#### Insulation:

Material	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.007 in

#### Color Chart 1:

Number	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White/Black
8	Red/Black
9	Green/Black
10	Orange/Black
11	Blue/Black
12	Black/White

#### Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum Foil-Polyester Tape	Beldfoil®	100 %
Braid	2	TC - Tinned Copper		85 %

#### Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.296 in	0.015 in

## Electrical Characteristics

#### Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
5.8 Ohm/1000ft	2.4 Ohm/1000ft

#### Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
33 pF/ft	60 pF/ft

#### Current:

Max. Recommended Current [A]
3.8 Amps per conductor @ 25°C

#### Inductance:

Nominal Inductance
0.14 µH/ft

#### Voltage:

## UL Voltage Rating

300 V RMS

## Use

Max Recommended Pulling Tension: 288 lbs

## Safety

CSA Flammability: FT6

UL Flammability: NFPA 262

## Temperature Range

Operating Temp Range: -70°C To +200°C

## Mechanical Characteristics

Min Bend Radius/Minor Axis: 3 in

## Part Number

Plenum (Y/N): Yes

## Standards

CA Prop 65 (CJ for Wire & Cable): CA Prop 65 (CJ for Wire & Cable)

CEC/C(UL) Specification: CEC/C(UL) Specification

MII Order #39 (China RoHS): MII Order #39 (China RoHS)

NEC/(UL) Specification: NEC/(UL) Specification

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: EU CE Mark

## History

## Product Variants

Part Number	Color	Put-Up Type	Length
83662 0021000	RED	Reel	1000 ft
83662 002100	RED	Reel	100 ft
83662 002500	RED	Reel	500 ft

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