Part Number: 8428

Microphone Cable, 2 Conductor 18 AWG, TC



Product Description

18 AWG stranded (41x34) High-conductivity TC conductors, EPDM rubber insulation, rayon braid, TC braid shield (85% coverage), cotton wrap, CPE jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor (Not Riser or Plenum)

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Conductors
18	41x34	High Conductivity TC - Tinned Copper	0.047 in	2

Conductor Count:	2
Conductor Size:	18 AWG

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
EPDM - Ethylene Propylene Diene Monomer Rubber	0.1 in	0.0235 in

Color Chart

Number	Color
1	White
2	Black

Outer Shield Material

Type	Material	Coverage [%]
Braid	TC - Tinned Copper	85 %

Note:	Cotton Wrap

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
CPE - Chlorinated Polyethylene	0.29 in	0.030 in	Rayon Braid
	0.29 in		

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR
6.8 Ohm/1000ft	6.8 Ohm/1000ft	2.7 Ohm/1000ft

Capacitance

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

Inductance

Nominal Inductance
0.19 µH/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

Current

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

Voltage

Non-UL Voltage Rating
600 V RMS

Temperature Range

Non-UL Temp Rating:	60°C
Operating Temp Range:	-30°C To +60°C

Mechanical Characteristics

Bulk Cable Weight:	54 lbs/1000ft
Max Recommended Pulling Tension:	138 lbs
Min Bend Radius/Minor Axis:	3 in

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	Footnote
8428 010100	Black	
8428 0101000	Black	C
8428 010500	Black	C
8428 010U500	Black	

Footnote:	C - CRATE REEL PUT-UP.

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