Product: 1776

Microphone Cable, 2 Conductor 20 AWG, TC

Product Description

20 AWG stranded (19x32) high-strength tinned alloy conductors, EPDM rubber insulation, rayon braid, high-strength tinned alloy braid shield (85% coverage), cotton wrap, EPDM jacket.

Technical Specifications

Product Overview

Suitable Applications:	Ruggedized, deployable microphone for studio or live performance; Balanced analog audio

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Conductors
20	19x32	TCA - Tinned Copper Alloy	0.037 in	2

Conductor Count:	2

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
EPDM - Ethylene Propylene Diene Monomer	0.083 in	0.023 in

Color Chart

Number	Color
1	White
2	Black

Outer Shield

Type	Layer	Material	Coverage [%]
Braid	1	Tinned Copper (TC)	85%
Braid	2	Rayon®	85%

Table Notes:	Cotton Wrap

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Separator Material
EPDM - Ethylene Propylene Diene Monomer	0.262 in	0.035 in	Cotton Serve

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR
11.5 Ohm/1000ft	11.5 Ohm/1000ft	6.2 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
33 pF/ft	58 pF/ft

Current

Max. Recommended Current [A]

4 A

Voltage

Non-UL Voltage Rating
600 V RMS

Temperature Range

Non-UL Temp Rating:	90°C
Operating Temperature Range:	-50°C To +90°C

Mechanical Characteristics

Bulk Cable Weight:	44 lbs/1000ft
Max. Pull Tension:	250 lbs
Min. Bend Radius/Minor Axis:	2.75 in

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
1776 010250	Black	Reel	250 ft	612825122289

History

Update and Revision:	Revision Number: 0.390 Revision Date: 02-15-2024