



**Part Number: 8778**

Audio, Control & Instrument, #22-6pr, PO, Individ. Foil, PVC Jkt, CM

## Product Description

Audio, Control & Instrument Cable, 22 AWG stranded (7x30) tinned copper conductor, polypropylene insulation, twisted pairs individually shielded with Beldfoil® (100% coverage), overall PVC jacket and 22 AWG stranded tinned copper drain wire.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Pairs
22	7x30	TC - Tinned Copper	0.03 in	12	6

Conductor Count:	12
Conductor Size:	22 AWG

#### Insulation

Material	Nominal Wall Thickness
PP - Polypropylene	0.011 in

#### Color Chart

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown

#### Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	22	Stranded

#### Outer Shield Material

Material
Unshielded

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.352 in	0.034 in

### Construction and Dimensions

#### Stranding

Lay Direction	Twists
Left Hand	6.9 twist/ft

### Electrical Characteristics

## Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR
10.6 Ohm/1000ft	15 Ohm/1000ft

## Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
30 pF/ft	55 pF/ft

## Inductance

Nominal Inductance
0.18 µH/ft

## Impedance

Nominal Characteristic Impedance
50 Ohm

## Delay

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	66 %

## Unbalanced Crosstalk

Typical Unbalanced NEXT %
10.8 MHz

## Current

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

Current Table Note:	10C Temperature Rise
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## Voltage

UL Description	UL Voltage Rating
UL type CM	300 V RMS (UL type CM)
UL AWM 2919	30 V RMS (UL AWM 2919)

## Temperature Range

UL Temp Rating:	80°C (UL AWM Style 2919)
Operating Temp Range:	-20°C To +80°C

## Mechanical Characteristics

Bulk Cable Weight:	70 lbs/1000ft
Max Recommended Pulling Tension:	157 lbs
Min Bend Radius/Minor Axis:	3.75 in

## Dimensions (WxHxD)

Width	Height
10.72	10.78

## Standards

NEC Articles:	800
NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
UL AWM Style:	2919 (30 V 80°C)
CPR Euroclass:	Eca

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	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
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## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT1
UL voltage rating:	300 V RMS (CM)

## Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	88778, 82778, 87778

## Part Number

### Variants

Item #	Color	Footnote
8778.00152	Chrome	
8778.00305	Chrome	
8778.0130	Chrome	
8778 060100	Chrome	
8778 0601000	Chrome	C
8778 060250	Chrome	C
8778 060500	Chrome	C
8778 0605000	Chrome	

Footnote:	C - CRATE REEL PUT-UP.
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