



**Product:** [87778](#) 

Audio, Control & Instrument, #22-6pr, FEP, Individ. Foil, PVDF Jkt, CMP

## Product Description

Audio, Control & Instrument Cable, 22 AWG stranded (7x30) tinned copper conductor, FEP insulation, 6 twisted pairs individually shielded with Beldfoil® (100% coverage), overall jacket per table below, 22 AWG stranded tinned copper drain wire.

## Technical Specifications

### Product Overview

Suitable Applications:	extreme high temperature environments; chemical resistant; outdoor and burial applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; voice communications; panel wiring
------------------------	---

### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	6	22	7x30	TC - Tinned Copper

#### Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
FEP - Fluorinated Ethylene Propylene	0.01 in (0.25 mm)	0.049 in (1.2 mm)	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown

#### Inner Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (19x34) TC

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVDF - Polyvinylidene Fluoride	0.014 in (0.36 mm)	0.309 in (7.85 mm)

### Electrical Characteristics

#### Electricals

Nom. Conductor DCR	Max. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Inductance	Nom. Velocity of Prop.	Max. Current
18.2 Ohm/1000ft	160 Ohm/km	10.46 Ohm/1000ft (34.32 Ohm/km)	31 pF/ft (100 pF/m)	67 pF/ft (220 pF/m)	50 Ohm	0.18 µH/ft (0.59 µH/m)	69%	1.96 Amps per Conductor at 25°C

#### Voltage

UL Voltage Rating
300 V

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
150°C	-20°C To +150°C

#### Bend Radius

Stationary Min.	Installation Min.
3.09 in (78.5 mm)	3.09 in (78.5 mm)

Max. Pull Tension:	109.2 lbs (49.53 kg)
Bulk Cable Weight:	68 lbs/1000ft

## Standards and Compliance

Flammability / Reaction to Fire:	NFPA 262 (UL910), FT6
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	8778

## History

Update and Revision:	Revision Number: 0.457 Revision Date: 09-07-2025
----------------------	--

## Part Numbers

### Variants

Item #	Color	UPC	Footnote
87778 0021000	Red	612825216223	C
87778 002500	Red	612825216230	C

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

© 2026 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.