Detailed Specifications & Technical Data

8778 Paired - Audio, Control and Instrumentation Cable



For more information please call

1-800-Belden1

Color Code Chart : No. 3 for Paired Cables (Belden Standard).pdf

Description:

22 AWG stranded (7x30) tinned copper conductors, twisted pairs, polypropylene insulation, individually shielded with 100% Beldfoil® shield, 22 AWG stranded tinned copper drain wire each pair, PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	6
Total Number of Conductors	12
AWG	22
Stranding	7x30
Conductor Diameter	.030 in.
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	PP - Polypropylene
Insulation Diameter	.050 in.

PAIR:

Pair Lay Length	1.75 in.
Pair Twists/ft.	6.85
Pair Shield Material Trade Name	Beldfoil® (Z-Fold®)
Pair Shield Type	Tape
Pair Shield Material	Aluminum Foil-Polyester Tape
Pair Shield % Coverage	100 %

PAIR SHIELD DRAIN WIRE :

Pair Shield Drain Wire AWG	22
Pair Shield Drain Wire Stranding	Stranded
Pair Shield Drain Wire Conductor Material	TC - Tinned Copper

Pair Color Code Chart :

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

8778 Paired - Audio, Control and Instrumentation Cable

OUTER SHIELD:

Outer Shield Material	Unshielded

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.362 in.

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +80°C
UL Temperature Rating	80°C (UL AWM Style 2919)
Bulk Cable Weight	74.3 lbs/1000 ft.
Max. Recommended Pulling Tension	157 lbs.
Min. Bend Radius (Install)	3.6 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CM
CEC/C(UL) Specification	CM
AWM Specification	UL Style 2919 (30 V 80°C)

FLAME TEST:

UL Flame Test	UL1581 Vertical Tray

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Non-Plenum Number	88778, 87778, 82778

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	50 Ohms
Nom. Inductance	0.18 µH/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	30 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	55 pF/ft
Nominal Velocity of Propagation	66 %
Nom. Conductor DC Resistance @ 20 Deg. C	15 Ohms/1000 ft
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	10.6 Ohms/1000 ft
Max. Operating Voltage - UL	30 V RMS (UL AWM Style 2919), 300 V RMS (CM)
Other Maximum Currents	2 Amps per conductor @ 25°C

Revision Number: 1 Revision Date: 12-11-2003

8778 Paired - Audio, Control and Instrumentation Cable

© 2003 Belden Wire & Cable Company
All Rights Reserved.

Although Belden Electronics Division ("Belden") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein 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 "AS IS" 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.