

Description:

22 AWG BC cond, FEP insul, cond twisted into pairs and individually shielded w/Beldfoil® tape (alum side facing in), drain wire, multiple pairs cabled together, Fluorocopolymer (22 AWG) or Flamarest® (18 AWG) jkt, ripcord. Seq ftg marking every two ft.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
4	22	7x30	BC - Bare Copper	.029

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)	Dia. (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	.010	.049

Inner Shield

Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Inner Shield Drain Wire AWG:

AWG
24

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVDF - Fluorocopolymer	.015

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Nominal Diameter: 0.252 in.

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.375	6.900

6543PA Multi-Conductor - Pro Audio and Intercom Systems

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +150°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	45.800 lbs/1000 ft.
Max. Recommended Pulling Tension:	94.800 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
NEC Articles:	800
CEC/C(UL) Specification:	CMP
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flame Test

UL Flame Test:	NFPA 262
C(UL) Flame Test:	FT6

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

50

Nom. Inductance:

Inductance (µH/ft)

.18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

27.5

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

49.5

Nominal Velocity of Propagation:

VP (%)

69

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

16.4

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

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15.3

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

2.0 Amps per conductor @ 25°C

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
6543PA 0081000	1,000 FT	46.000 LB	GRAY	C	4 FS PR #22 FEP SLF

Notes:

C = CRATE REEL PUT-UP.

Communication and Control Cable

Pro Audio and Intercom Systems
Individually Shielded, Plenum-Rated



Individually Shielded Twisted Pairs

CMP FT6 Rated

Product Description

Bare copper conductors, FEP insulation (per table). Conductors twisted into pairs and individually shielded with Beldfoil® tape (aluminum side facing in) and a drain wire, multiple pairs cabled together, Gray Fluorocopolymer (22 AWG) or Natural Flammarrest® (18 AWG) jacket, rip cord. Sequential footage marking every two feet.

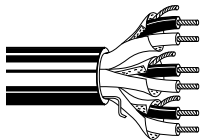
Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	FEP
Insulation Thickness	.010" (.254mm)
Shield	Beldfoil
Jacket	
22 AWG	Gray Fluorocopolymer
18 AWG	Natural Flammarrest
Nominal Capacitance	
22 AWG	27.5 pF/ft.
18 AWG	44 pF/ft.
Approvals	
NEC	CMP
CEC	CMP FT6
NEC Articles	800
Voltage Rating	300V
Temperature Rating	75°C

Applications

- Security Systems
- Intercom/PA Systems
- Sound/Audio Systems
- Power-Limited Controls
- Analog Multi-pair Snakes



Part No.	No. of Pairs	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm

Individually Shielded Twisted Pairs (NEC CMP and CEC CMP FT6)

22 AWG										
6541PA	2	7	500	152	13.5	6.1	.015	.38	.214	5.44
			U-1000	U-305	26.0	11.8				
			1000	305	27.0	12.3				
6542PA	3	7	1000	305	36.0	16.3	.015	.38	.228	5.79
6543PA	4	7	1000	305	45.0	20.4	.015	.38	.252	6.40
6545PA	6	7	1000	305	60.0	27.2	.015	.38	.300	7.62
6546PA	8	7	1000	305	85.0	38.6	.017	.42	.332	8.43
6548PA	12	7	1000	305	125.0	56.8	.017	.42	.408	10.36
6549PA	16	7	1000	305	162.0	73.5	.017	.42	.457	11.61
18 AWG										
6341PC	2	7	500	152	26.5	12.0	.017	.42	.281	7.14
			U-1000	U-305	47.0	21.3				
			1000	305	49.0	22.2				
6342PC	3	7	500	152	32.0	14.5	.017	.42	.300	7.62
			1000	305	64.0	29.0				
6343PC	4	7	1000	305	83.0	37.7	.017	.42	.332	8.43
6345PC	6	7	500	152	66.5	30.2	.019	.48	.402	10.21
			1000	305	132.0	59.9				

Color Code Chart

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Black & Red	6	Black & Brown	11	Red & Yellow
2	Black & White	7	Black & Orange	12	Red & Brown
3	Black & Green	8	Red & White	13	Red & Orange
4	Black & Blue	9	Red & Green	14	Green & White
5	Black & Yellow	10	Red & Blue	15	Green & Blue
				16	Green & Yellow