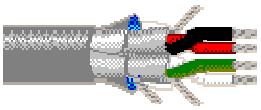

8728

Multi-Conductor - Special Audio, Communication and Instrumentation Cable

Contact Cables
The Cable Specialists

Description

22 AWG stranded (7x30) TC conductors, polypropylene insulation, cabled in pairs, overall Beldfoil® shield (100% coverage), 24 AWG stranded TC drain wires, PVC jacket.

Put Ups and Colours

Item #	Putup	Ship Weight	Jacket Colour	Notes	Item Description
8728 0601000	1,000 FT	31.000 LB	CHROME	C	2 #22 SHPR PP PVC CHR
8728 060500	500 FT	15.500 LB	CHROME	C	`#22 SHPR PP PVC CHR
8728 060U1000	1,000 FT	30.000 LB	CHROME		2 #22 SHPR PP PVC CHR
8728 060U500	500 FT	15.500 LB	CHROME		`#22 SHPR PP PVC CHR

Notes:
C = Create Reel Put-up

Physical Characteristics (overall)

Conductor – AWG

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
2.000	22	7x30	TC – Tinned Copper	0.030

Insulation – Insulation Material

Ins Material	Wall Thickness (in.)	Dia. (in.)
PP – Polypropylene	0.010	0.050

Inner Shield – Inner Shield Material

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	% Coverage (%)	Stranding	Dia. (in.)	Conductor Material
Layer 1	Beldfoil®	Tape	Aluminium Foil-Polyester Tape	100			
Layer 2		Tape	Polyester-Tape	100			

Inner Shield Drain Wire AWG: 22
Inner Shield Drain Wire Stranding: Stranded
Inner Shield Drain Wire Conductor Material: TC – Tinned Copper

Outer Shield - Outer Shield Material

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

Outer Shield Drain Wire AWG

AWG	Stranding	Drain Wire Conductor Material
24	Stranded	TC – Tinned Copper

Outer Jacket – Outer Jacket Material

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC – Polyvinylchloride	0.028

Overall Cabling – Overall Nominal Diameter: 0.215 in.

Pair Colour Code Chart

Number	Colour
1	Black & Red
2	White & Green

Pair Lay Length & Direction

Lay Length (In.)	Twists/ft. (twist/ft)
1.250	9.600

Mechanical Characteristics (overall)

Operating Temperature Range	-20°C to +80°C
UL Temperature Range	80°C (UL AWM Style 2717)
Bulk Cable Weight	35.600 lbs/1000ft
Max. Recommended Pulling Tension	36.400 lbs
Min. Bend Radius (Install)/Minor Axis	1.250 In.

Applicable Specifications and Agency Compliance (overall)

Application

NEC (UL) Specification	CM
NEC Articles	800
CEC/C (UL) Specification	CM
AWM Specification	UL Style 2717 (300 V 80°C)
EU CE Mark	
EU RoHS Compliant (commence date: dd/mm/yyyy)	(01/04/2005)

Flame Test

UL Flame Test	UL 1685 FT4 Loading

Plenum/Non-Plenum

Plenum

Electrical Characteristics (overall)

Nom. Characteristics Impedance

Impedance (Ohm)
50.000

Nom. Inductance

Inductance (µH/ft)
0.180

Nom. Capacitance Conductor to Conductor

Capacitance (pF/ft)
35.000

Nom. Capacitance Conductor to Other Conductor & Shield

Capacitance (pF/ft)
62.000

Nominal Velocity of Propagation

VP (%)
66

Nominal Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
17.000

Ind. Pair Nominal Shield DC Resistance @ 20°C: 16.600 Ohm/100 ft

Max. Operating Voltage – UL

Voltage
300 V RMS (UL AWM Style 2717)

Max. Recommended Current

Current
2.3 Amps per conductor @ 25°C

Note

Each pair Beldfoil® shielded with individual drain wire plus a polyester film over each shield.