

Description: Tinned Copper conductor, FEP Insulation, twisted pairs, overall foil shield and PVDF Jacketed Plenum Cable.


A. Construction:

- 1.0 Primaries:
  - 1.1 Conductor:
    - AWG 22 AWG
    - Stranding 7/30 Tinned Copper;
    - Nom. Dia .030"
  - 1.2 Insulation:
    - Material FEP
    - Nom. thickness .006"
    - Nom. OD .042"
- 2.0 Pair construction: Two insulated conductors twisted together
  - 2.1 No. of Pairs 1
  - 2.2 Pair Color Code: Black & Red
- 3.0 Overall shield:
  - 3.1 Separator: Polyester tape
  - 3.2 Shield: Aluminum/Polyester Tape; 100% coverage; (Aluminum Side out)
  - 3.3 Drain Wire: 22 AWG Stranded Tinned Copper
- 4.0 Jacket Material: PVDF Nom. wall: .014" Color: TBD
- 5.0 Overall Diameter of Cable Nom. .120"
- 6.0 Marking: Surface Print:  
 GENERAL CABLE (F) C8103 2C 22 AWG SHIELDED CMP (UL) C(UL) ---- ROHS  
 AAAAAA\*  
 \* Indicates Shop Order number

B. Characteristics:

- 1.0 Conductor DC Resistance @20C Max. (Ohm): 16
- 2.0 Capacitance between conductors Nom. (pF/ft): 35
- 3.0 Capacitance Cond. To other Cond.& Shield Nom. (pF/ft): 65
- 4.0 Inductance Nom. (μH/ft): .15
- 5.0 Shield Resistance Nom.(Ohms/1000'): 12
- 6.0 Velocity of propagation Nom.: 69
- 7.0 Characteristic Impedance Nom. (Ohms): 48
- 8.0 Operating Voltage Nom.: 300 V
- 9.0 Continuous Operating Temp: -40C to + 150C
- 10.0 Min. Bend Radius (inches): 1.2
- 11.0 Max. Pulling Tension Lbs: 25.0

C. Approvals: UL –CMP ; C(UL) CMP

| REV | DATE     | CHANGE DETAIL       |  |                                   | <b>General Cable</b><br>20 Forge Park, Franklin, Ma 02038<br>Phone: 508-541-7100 Fax: 508-541-8122 |             |
|-----|----------|---------------------|--|-----------------------------------|--|-------------|
|     |          |                     |  |                                   |  |             |
|     |          |                     | Description:   | 1 PR 22 AWG Shielded Plenum Cable |  |             |
|     |          |                     | Created By:  |                                   |  |             |
| A   | 06/30/09 | Initial Release -DB | Final Approval:  | VM 6/29/09                        |  | PAGE 1 of 1 |