SUGGESTED SOURCE OF SUPPLY

VENDOR P/N PS197389-11
VENDOR NAME QA APPROVED MFG (CAE)
CAGE CODE
ADDRESS
TEL
FAX

ALTERNATE SOURCE

VENDOR P/N
VENDOR NAME
CAGE CODE
ADDRESS
TEL
FAX

ALTERNATE SOURCE

VENDOR P/N
VENDOR NAME
CAGE CODE
ADDRESS
TEL
FAX

NEXT ASSY	USED ON

APPLICATION

QA APPD	CE APPD	CM APPD

☐ DESIGN CONTROLLED | CHANGES REQUIRE CONFIGURATION CONTROL BOARD AUTHORIZATION

CAE 3152 MAR 2001 CAD

SPECIFIC REQUIREMENTS

General Description:

Cable, 1COND, 22 AWG (7X30), tinned copper conductors, PVC insulation, tinned copper Braided shield (min.85% coverage), White PVC jacket,

1.0 Applicable Documents:

- Military: MIL-W-16878 Rev. E Wire, Electrical, Insulated, General Specification

- Standards: MIL-STD- 104 Limits for electrical insulation color

- Underwriter Laboratories: UL-94-VW1

2.0 Physical Characteristics:

- Conductor AWG
Conductor construction shall be in accordance with MIL-W-16878 (ASTM-B-173 and ASTM-B-286)

Wire Size (AWG)	Stranded	Conductor Material	Length of Lay (inch)	Conductor Diameter (inch)
22	(7X30)	Tinned Copper		.030 nominal

- Conductor Insulation Material; (MIL-W-16878/1-Type B, PVC, 105 Deg C, 600 Volts)

Insulation Material	Wall Thickness (inch)	Finish Wire Outside Diameter (inch)
Type B PVC (Polyvinyl Chloride)	.008-.012	.046-.053

- Cabling

CONSTRUCTION	Color Code (MIL-STD-104)	Cabling Lay Twist (inch)	Outside Diameter (inch)
1 COND	WHITE		.046-.053

- Outer Shield Material:
The shielded braid shall be a push back type, tight fitting and closely woven

Type	Outer Shield Material	Angle of Braid (Degree)	Coverage (min. %)
Braid	TC-Tinned Copper	20-40 Deg	85 %

- Outer Jacket Material:

Outer Jacket Material	Wall Thickness (Inch)	Finish Cable 0utside Diameter (inch).
White PVC (Polyvinyl Chloride)	.008-.012	.081-.097

3.0 Electrical Characteristics:
The individual wires shall meet the electrical test requirements of the MIL-W-16878/1

- Voltage Rating: 600V
- Maximum Conductor DC Resistance per 1,000 feet @ 25 Deg C: 16.7 Ohms/1000 Ft.
- Dielectric Withstanding voltage: 2000V minimum

RELEASE	REVISIONS			
	REV	DESCRIPTION	DATE	APPROVED
	F	ECN1606225 INC	26SEP2017	C.V.

4.0 Flame Test
The cable shall meet the UL-VW1-Flame Test

5.0 Physical
The cable shall meet the physical test requirements of the MIL-W-16878/1

6.0 Environmental Characteristics:

The individual/group of conductors used in cabling shall meet the environmental testing requirement of the MIL-W-16878/1
- Operating temperature; -40 to +105 Deg C

7.0 Workmanship:

The wires shall be free of kinks, abrasions, cracked, or peeled surfaces. The wire shall be uniform, of consistent product and shall be free from defect which will adversely of the product

The cable jacket shall be free of cracks, splits, imbedded foreign material, or any other damage or defect that could make the cable unsatisfactory for the purpose intended.

8.0 Quality Responsibility:

The supplier is responsible for meeting al requirements specified herein. Inspections records and test results. The user shall perform required inspection set forth in this specification where such inspections are deemed necessary to assure that the product conforms to the prescribe requirements.

9.0 Preparation for Delivery:
The method of preservation, packaging and packing utilized for shipment shall adequately protect the cable from damage or degradation of performance due to the natural and induced environment encountered during transportation and subsequent indoor storage

Each reel shall contain preferably one continuous length, maximum 3 lengths. Cable shall be spooled in reels not exceeding 16" diameter, and at one inch free from the edge. The reels should be able to sustain weight when stacked up.

Both ends of the cable shall be readily accessible on the reel for inspection

All reels shall be labelled with the following info:
A) CAE Part Number Ex. PS197389115122 B) Product Name & Identification Ex. Cond, TP, TT, B24 etc.
C) Voltage, Temperature Rating D) CAE Purchase Order
E) Shipping Date F) Length per Reel
G) Amount of Length per Reel H) ROHS COMPLIANT

ROHS COMPLIANT

SPECIFICATION CONTROL DRAWING

GENERAL REQUIREMENTS

☐ CERTIFICATE OF COMPLIANCE REQUIRED
☐ TEST REPORT REQUIRED
☐ CAE SOURCE INSPECTION REQUIRED (VENDOR TO NOTIFY CAE)
☐ OPERATING & MAINTENANCE DOCUMENTATION
☐ SPECIFY

CONTRACT GENERAL

THIS DOCUMENT IS DERIVED FROM ORIGINAL SOURCE DATA RELEASED IN CAE'S CORPORATE DATA MANAGEMENT SYSTEM. IN THE EVENT OF ANY CONFLICT THE ORIGINAL DATA SOURCE TAKES PRECEDENCE.

CAE
MONTREAL CANADA

TITLE
CABLE

SIZE	CAGE CODE	
B	35181	PS197389 11.5.122

SCALE | WT | SHEET 1 OF 1