

SUGGESTED SOURCE OF SUPPLY

VENDOR P/N PS374513-06
 VENDOR NAME JAMES MONROE WIRE AND CABLE
 CAGE CODE -----
 ADDRESS 767 STERLING ROAD
 SOUTH LANCASTER, MA 01561
 USA
 TEL (978) 368-0131
 FAX (978) 368-1275

ALTERNATE SOURCE

VENDOR P/N
 VENDOR NAME
 CAGE CODE
 ADDRESS

 TEL
 FAX

ALTERNATE SOURCE

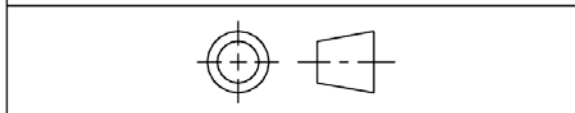
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NEXT ASSY	USED ON
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APPLICATION



QA APPD	CE APPD	CM APPD
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DESIGN CHANGES REQUIRE CONFIGURATION CONTROLLED CONTROL BOARD AUTHORIZATION

SPECIFIC REQUIREMENTS

Description:
 Seventy-Eight Conductor Composite Cable completed with an Overall Foil Shield, Braid Shield and TPE Jacket.

CONSTRUCTION:

COMPONENT A:

- Twenty-Seven 24 AWG Twisted Pairs
- Conductor: 24 AWG, 19/36 tinned copper
- Insulation: .010" nominal wall of Semi-Rigid PVC (see color code) .044"
- Pair Twist: Two 24 AWG conductors twisted together, LH Lay .088" (major axis)

COMPONENT B:

- Twelve 22 AWG Twisted Pairs
- Conductor: 22 AWG, 19/34 tinned copper
- Insulation: .010" nominal wall of Semi-Rigid PVC (see color code) .050"
- Pair Twist: Two 22 AWG conductors twisted together, LH Lay .100" (major axis)

FINAL ASSEMBLY:

- Cabling: Twenty-Seven A components and Twelve B components cabled together with fillers as necessary for roundness
- Binder: Fleece tape
- Foil Shield: Aluminum-Mylar tape, Aluminum side OUT
- Braid Shield: 34 AWG tinned copper braid, 95% coverage
- Separator: Tissue tape
- Jacket: .050" nominal wall of Pressured Black TPE .685" (.700" Max)
- Bend Radius : 5.0 in. minimum

MARKING: Surface Printed minimum requirement

MANUFACTURER NAME 27TP/24 12TP/22 75C (UL) TYPE CM OR
 AWM 20327 105C 300V CUL AWM I/II A/B 105C 300V FT4 --- ROHS CE

ELECTRICAL REQUIREMENTS:

- Voltage rating: 300V
- Conductor DC resistance: 24 AWG (Component A) 24.9 Ohms /1000ft.
 22 AWG (Component B) 15.5 Ohms/1000 ft.
- Hi-Pot Test Finish: 2500 VDC for 2 seconds
- Spark test: 1750 VAC @ extrusion

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

RELEASE	REVISIONS			
	REV	DESCRIPTION	DATE	APPROVED
	A	ECN1594759 INC	27JUL2016	K.H.

APPROVALS:

UL Type CM
 AWM Style 20327
 Canadian CUL AWM
 RoHS
 CE

PREPARATION FOR DELIVERY

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

Reel size and Put-Up: 36" Plywood max./ 1500 ft. nom. Both ends shall be readily accessible on the reel for inspection (continuity, resistance and etc.)

All Reels Shall Be Labeled With:

- CAE P/N: PS374513-06
- CAE Purchase Order number
- Shipping Date
- Length per reel
- Manufacturer's name
- Product's name and identification

NOTES:
 - DOCUMENT MADE FROM CAE PN PS374513-05
 - REF JAMES MONROE PROD SPEC JM56739

REF COMPENG MEMO RCEA 8934

ROHS COMPLIANT

SPECIFICATION CONTROL DRAWING

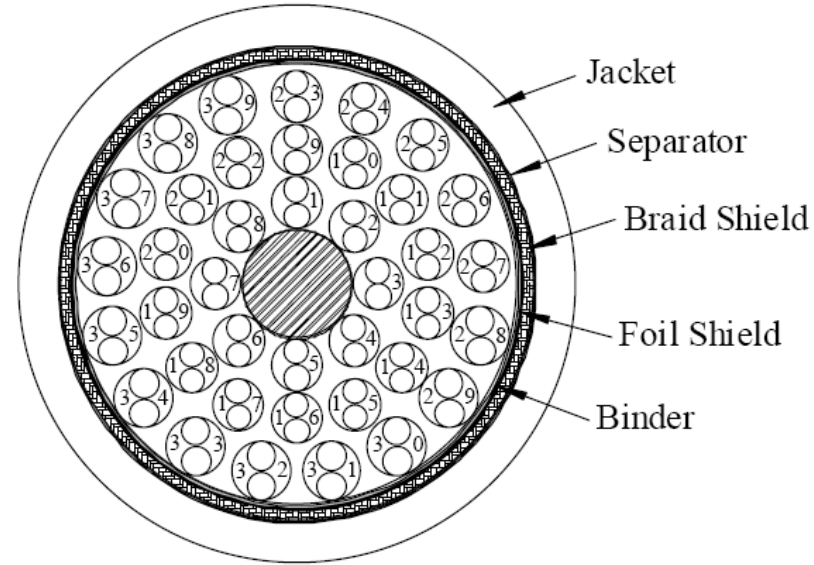
CONTRACT		GENERAL		CAE			
DWN B. GRANDMONT		13DEC2012		MONTREAL CANADA			
CHK				TITLE			
APPD(O.D.) R. BAUER		30MAY2013		CABLE COMPOSITE 78C			
APPD				SIZE	CAGE CODE		
APPD				B	35181	PS374513	06.5.122
				SCALE	WT	SHEET	1 OF 2

SPECIFIC REQUIREMENTS

RELEASE	REVISIONS			
	REV	DESCRIPTION	DATE	APPROVED
	A	SEE SHEET 1		

Cable Diagram

Location of Components and Fillers may vary from Cable Diagram.



Color Code Band Marking on all conductors

Component A: 27 TWISTED PAIR 24 AWG

- | | |
|---------------------------------------|--|
| Pair 1: Black/Red and Red/Black | Pair 15: Green/White and White/Green |
| Pair 2: Black/White and White/Black | Pair 16: Green/Brown and Brown/Green |
| Pair 3: Black/Green and Green/Black | Pair 17: Green/Orange and Orange/Green |
| Pair 4: Black/Blue and Blue/Black | Pair 18: Green/Yellow and Yellow/Green |
| Pair 5: Black/Brown and Brown/Black | Pair 19: White/Blue and Blue/White |
| Pair 6: Black/Yellow and Yellow/Black | Pair 20: White/Brown and Brown/White |
| Pair 7: Black/Orange and Orange/Black | Pair 21: White/Orange and Orange/White |
| Pair 8: Red/Green and Green/Red | Pair 22: White/Yellow and Yellow/White |
| Pair 9: Red/White and White/Red | Pair 23: Blue/Brown and Brown/Blue |
| Pair 10: Red/Blue and Blue/Red | Pair 24: Blue/Orange and Orange/Blue |
| Pair 11: Red/Yellow and Yellow/Red | Pair 25: Blue/Yellow and Yellow/Blue |
| Pair 12: Red/Brown and Brown/Red | Pair 26: Brown/Orange and Orange/Brown |
| Pair 13: Red/Orange and Orange/Red | Pair 27: Brown/Yellow and Yellow/Brown |

Component B: 12 TWISTED PAIR 22 AWG

- | | |
|--|--|
| Pair 28: Purple/Red and Red/Purple | Pair 34: Purple/Orange and Orange/Purple |
| Pair 29: Purple/White and White/Purple | Pair 35: Purple/Gray and Gray/Purple |
| Pair 30: Purple/Green and Green/Purple | Pair 36: Purple/Black and Black/Purple |
| Pair 31: Purple/Blue and Blue/Purple | Pair 37: Gray/Red and Red/Gray |
| Pair 32: Purple/Brown and Brown/Purple | Pair 38: Gray/White and White/Gray |
| Pair 33: Purple/Yellow and Yellow/Purple | Pair 39: Gray/Green and Green/Gray |

SPECIFICATION CONTROL DRAWING

CONTRACT GENERAL		CAE MONTREAL CANADA			
OWN		TITLE CABLE COMPOSITE 78C			
CHK		SIZE	CAGE CODE	PS374513	06.5.122
APPD(D.O.)		B	35181		
APPD		SCALE	WT	SHEET	2 OF 2
APPD					