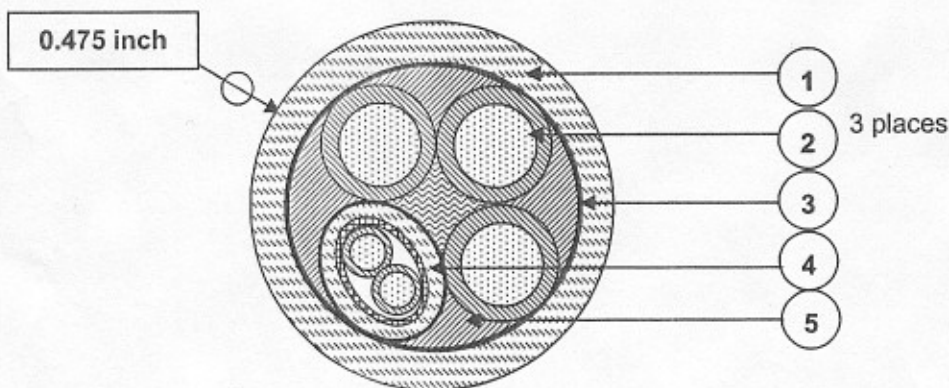


REVISION RECORD			
Rev	Date	Description	Auth
PP-2	11/12/02	Initial release	S.A.
N/C	02/04/03	Production release.	S.A.
Printed 09/01/2005			

PROPRIETARY DOCUMENT



Cable, 5 conductor
 This cable is UL-Recognized
 under UL AWM Style 2464
 Rated 300 volts, 80°C.
 Mfg. UL File: E35793

**UNCONTROLLED
COPY**

SPECIFICATION

Approvals		Date	NATIONAL WIRE & CABLE CORPORATION	
Prep:	F. Motley <i>F. Motley</i>	09/01/05	136 San Fernando Road,	Los Angeles, CA 90031
Engr:	S. Audish <i>S. Audish</i>	09/01/05	Tel: 323-225-5611	Fax: 323-225-4630
Mfg:	S. Campos <i>S. Campos</i>	09/01/05	Web: www.nationalwire.com	email: info@nationalwire.com
QA	R. DeLa Canal <i>RDC</i>	09/01/05 9-1-05		
NATIONAL WIRE & CABLE CORPORATION			Cable, Electronic, Spcl Purp. 3/#10 + 1/20TPSJ	
FEDERAL MFGR CAGE NO. 04569			S10-7231	Rev: N/C
			Lockheed Martin Co.	Pg. 1 of 2

1	Jacket	The overall jacket shall be an extruded layer of flexible black polyvinyl chloride (PVC) compound, with a nominal wall thickness of 0.045 inch. Outside diameter shall be 0.475 inch, nominal.
2	Conductors Singles(3)	The cable shall contain five conductors arranged as: three (3) single insulated conductors and one (1) subcable consisting of a twisted pair of insulated conductors, having an overall shield and PVC jacket. The three (3) single conductors shall be of AWG 10(105x30) stranded tinned copper, individually insulated to meet UL AWM style 1569. (UL AWM Style 1569 wire is rated for use at 300V for appliance use, and 600V for electronic use, from -40°C to +105°C.) Insulated conductors shall be color coded per Table A.
4	Subcable: Twisted pair, shielded and jacketed	The one (1) shielded and jacketed sub-cable shall consist of two (2) single conductors of AWG 20(19x32) stranded tinned copper individually insulated to meet UL AWM Style 1061, each with an added o'all clear Nylon armor layer. Nominal diameter over armor is .064 inch. The two wires shall be twisted with a nominal lay length of 1-1/2 inch. A tinned copper shielding braid shall be applied directly over the twisted pair. The braid shall have a coverage of 90%, minimum, with an advance angle less than 40 degrees. An overall insulating jacket of white PVC shall be applied over the shield braid. (UL AWM Style 1061 wire, with an added o'all clear Nylon armor layer, is rated at 300V for appliance use, from -40°C to +80°C. Ref: UL File E 35793) Insulated conductors shall be color coded per Table A.
3	Barrier	An overall barrier shall be formed using a 0.001-inch thick clear polyester tape wrapped over the cabled bundle. Tape overlap shall be 35 to 50%.
5	Filler	Filler, where used to round the cable bundle, shall be fibrillated polypropylene.
	Cabling	To ensure consistent flexibility of the cable, all wires and components shall be given a precision helical twist using planetary cable-forming machines with back-twist neutralization to form the cable. There shall be no evidence of residual twist in the components.
	HV Spark Test	100% of all insulated wire shall pass the UL-specified spark test prior to processing.
	Final Test	Finished cable shall withstand a 1500-volt AC, 60 Hz, High Potential Withstand Test applied between each wire and a group consisting of all else in the cable. Test potential shall be applied continuously for one minute without arcing or other evidence of failure. All conductors shall be tested to verify continuity.
	Optional Agency Mark- ing	Unless otherwise specified, the cable will be ink-marked at regular intervals on the cable jacket with "S10-7231" and the agency-required legend for UL 2464 AWM cable. UL permits this cable to be supplied without the jacket marking, on special order.

TABLE A

Wire No.	AWG	Color	Class	
1	10	BLACK	Single wire	
2	10	RED	Single wire	
3	10	WHITE	Single wire	
4	20	BLACK	Shielded and jacketed Pair	Jacket color is white
5	20	WHITE		

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FEDERAL MFGR CAGE NO. 04569	S10-7231	Rev: N/C
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