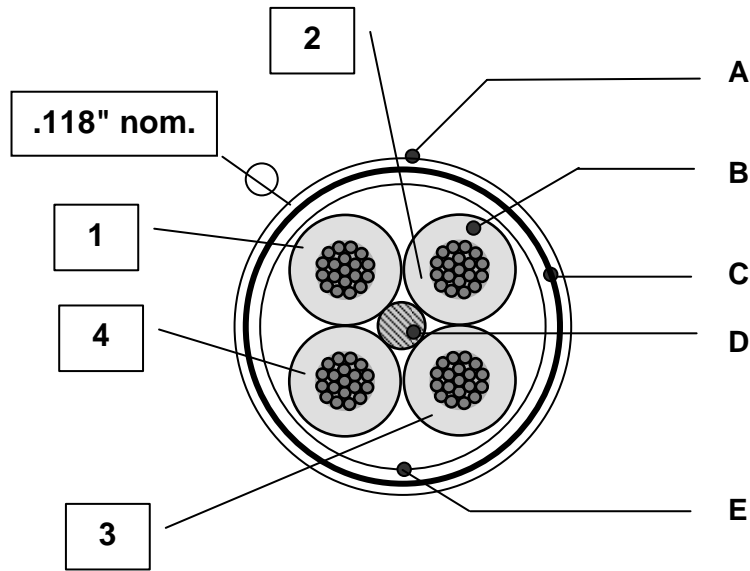


REVISION RECORD			
Rev	Date	Description	Auth
n/c	5/25/01	Initial release.	F.M.
A	05/12/08	Customer removed solderability test requirements Rockwell #: 428-0301C. EDCN#: 5717.	SA
B	03/30/15	Customer issued new rev. level "D" to include new CAGE Code & Misc. No design change. EDCN#: 5822.	SA
Printed 03/30/2015			

PROPRIETARY DOCUMENT



Shielded cable has 4 insulated single wires and an overall braid

SPECIFICATION

Approvals	Date	<p align="center">NATIONAL WIRE & CABLE CORPORATION</p> <p>136 San Fernando Road Los Angeles, CA 90031</p> <p>Tel: 323-225-5611 Fax: 323-225-4630</p> <p>www.nationalwire.com mail@nationalwire.com</p>	
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Engr: S. Audish			
Mfg: G. Lepe			
Q.A. J. Rasheed			
<p align="center">NATIONAL WIRE & CABLE CORPORATION</p> <p align="center">FEDERAL MFR CAGE NO. 04569</p>		<p align="center">Cable, Electronic, 4 Cond. #26, o'all shield</p> <p align="center">S10-7008</p> <p align="center">Rockwell-Collins #: 428-0301D Exciter twisted cable</p>	
<p><small>THIS DOCUMENT IS THE SOLE PROPERTY OF NATIONAL WIRE & CABLE CORPORATION. MAKE NO DUPLICATION OR RELEASE WITHOUT WRITTEN PERMISSION.</small></p>		<p>Rev. B</p> <p>Pg. 1 of 3</p>	

S10-7008 CABLE

A	Optional protective cover	Over the bulk cable shield, an outer temporary protective jacket shall be a single spiral wrap of clear 1/2 mil (.0005" thickness) polyester film. The wrap shall overlap 20% minimum. Note: This is an easily unwrapped disposable binder intended to hold the bundle after cutting into desired lengths. Unwrapping works properly only from one end. An alternate tape may be unsintered TFE of up to .004 inch thickness.
B	Insulated Wires	Wire bundle shall consist of four (4) individually insulated conductors of National Wire part no. WS-1554. Wire is AWG 26(19x38) unilay stranded silver-plated high strength copper alloy type SPA-135. Insulation material shall be an extruded fluorocarbon of Type FEP Teflon, or PFA Teflon. Insulation wall thickness shall be a nominal .010 inch, with the minimum at any point to be .0075 inch. Nominal diameter is .040 inch. Insulation colors shall be per Table A.
C	RFI Shield	The cabled bundle of components shall have one overall shielding braid. The shield shall be tinned copper braid formed using AWG 36 wires. Minimum braid coverage shall be 90%. Braid advance angle shall be 30° +/- 4° for best "pushback".
D	Filler	Core filler shall be a flexible rod of polyethylene, or Teflon. Use of a fine yarn or thread in rod center for process convenience is acceptable.
E	Barrier Tape	Over the wire bundle, under the braid, shall be a spiral wrap of clear 1/2 mil (.0005" thickness) polyester film. The wrap shall overlap 20% minimum.
	Helical Cable Forming	The single insulated wires shall be helically formed around the core member. All components shall be cabled using a planetary cable-forming machine to provide neutralization of back-twist for each conductor. This process is required to avoid change in the lay length or helix angle of the helically stranded metal conductor within the insulation, and avoid stored strain within the walls of insulation. Twist of the wire layer shall be a Left Hand lay at a nominal 1-1/8 inch per turn. Nominal diameter over the bundle is 0.118" inch.
	HV Spark Test	100% of all single insulated wire shall pass a 3400 VAC spark test prior to cabling.
	Leakage Test	Insulated wires in the finished bulk cable shall meet a wire-to-wire insulation resistance (IR) test value of not less than 100 megohms per 1000 feet of cable, at a test voltage of 500 VDC, after 1 minute of electrification.
	Final Hipot Test	Finished bulk cable shall withstand a 1000 VAC high potential 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.
	Packaging	Cable shall be supplied in bulk form, wound on non-return wood or plastic spools, ready to be cut into desired lengths as needed.
	Quality	Vendor shall maintain a Quality Program that complies with requirements of a MIL-I-45208 Inspection System, or an appropriate level of ISO-9000.

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FEDERAL MFGR CAGE NO. 04569

Cable, Electronic, 4 Cond. #26, o'all shield

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TABLE A

Component No.	Wire Type & Color	Component
1	WS-1544-4 Yellow	Single wire
2	WS-1544-5 Green	Single wire
3	WS-1544-7 Violet	Single wire
4	WS-1544-0 Black	Single wire

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