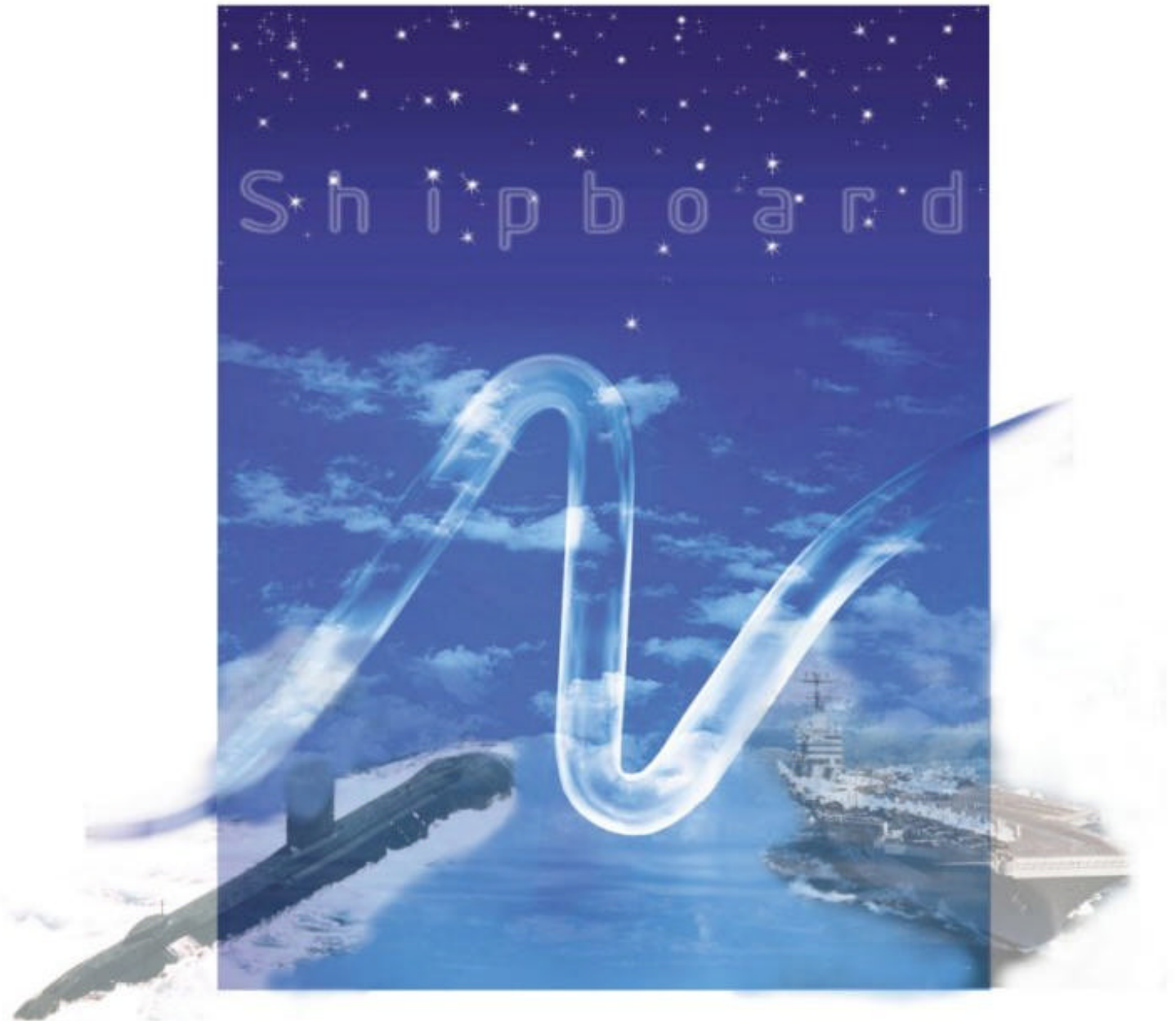




**Berk-Tek Electronics Cable**





## BERK-TEK ELECTRONICS CABLE ELM CITY, NC

military cables for land,  
air, space, and now sea vessels

### GLOBAL CABLE EXPERTISE FOR SHIPBUILDING

The variety of shipyard and on-board cables requires a cable manufacturer with broad experience. As a global supplier to the world shipbuilding industry,

Nexans provides:

- a wide family of shipyard and on-board marine cables provided by one manufacturer
- high performance in terms of heat, cold, humidity, oil, vibration, salt corrosion, etc.
- advanced fiber and copper LANs for next generation maritime telecommunications and CATV/Internet
- a complete range of LV/HV power cables for all yard and shipboard energy needs
- reduced weight / volume through advanced XLPE cable designs
- custom-designed cables with value-added and efficient modular installation
- manufacturing flexibility to accommodate design and production changes
- global presence and fast delivery wherever you are located in the world
- ISO 9001 quality standards
- advanced fire-performance: low-smoke, halogen-free products for safety
- life-cycle product guarantees to meet new tough Maritime Equipment Directives



#### Marketplace Leaders:

Nexans, Berk-Tek Electronics Cable manufactures a wide range of high-performance wire and cable utilizing conventional thermo-plastics, innovative cross-linked materials and high temperature fluoropolymers. Our mission is to be a premier supplier to the world's aerospace, electronics and maritime military industrial complex. Founded in 1957 the Elm City, NC facility has consistently been a leader in the development high performance cable constructions for the aerospace and military markets. Through innovative material science we now bring our capabilities to bear on the military shipboard market.

#### Manufacturing Technology:

Providing you with the flexibility of designing cables that best meet the requirements of your specific application. Nexans experience providing product and service for the space program has resulted in a climate of precision and integrity that permeates to all aspects of our organization. Our engineering and sales staffs recognize it is often impossible to find exactly the right cable from a standard catalog list. We work with our customers to develop and / or improve their wire and cable products.

#### Material Technology

Combining years of experience with state-of-the-art facilities, Nexans can offer a variety of materials for insulating, jacketing, EMI shielding and specialty cables. The ability to compound material, extrude, and irradiate using an E-beam is all under one roof.

#### Listing of materials processed:

Fluoropolymers (PTFE, FEP, ETFE, ECTFE, PFA, PVDF)

- Cross-linked ETFE, PE
- Polyethylene (solid, foam)
- Polypropylene
- Round, Flat, Textile braids
- TPR (Thermoplastic Rubber)
- LSOH crosslinked Polyolefin
- Low Temperature Neoprene
- Polyalkene
- Mineral-filled PTFE
- Polyimide
- Low smoke XLPE



# Products and Qualifications



Providing the most diverse range of products in the wire and cable industry. Offering Melt Extruded, Paste Extruded, Tape Wrapped, and Cross-linked constructions.

## Shipboard Cables:

Nexans, Berk-Tek Electronics Cable is qualified on all slant sheets within the MIL-DTL-24640 along with several low hazard coaxes. Cables are used by the United States Navy for communications, control, instrumentation, signal, and power. Constructions of this type are water-blocked for installation between compartments where watertight integrity is essential.

### Cables Include:

- MIL-W-81044 (AS 81044/5-13)
- MIL-C-17 low hazard coax
- MIL-DTL-24640 low-voltage power, signal, and control
- IEC-92-3
- IEC-92-350 heavy wall shipboard
- IEC-92-353 thin wall shipboard (fire resistant, flame retardant)
- NAVORD Drawings

### Additional Military Cables:

- AS 22759/5-31, 32-46
- AS 22759/80-92
- WC 27500
- MIL-W-16878/4-28 (HP3 & HP4)
- MIL-W-25038/1-3
- MIL-DTL-27072A
- MIL-DTL-81381/7-14, 17-22
- British Defense Standard 61-12 part 21
- British Defense Standard 61-12 part 33



## Certifications / Awards

- ISO 9001:2000 (UL)
- Gold Supplier to Boeing
- Lockheed Martin Star Supplier
- Boeing Mesa (PVA)
- ANSI-N45.2
- 10 CFR 50
- ANSI-Z-1.4



## MIL-DTL-24640 /1 - /24 (LIGHTWEIGHT)

MIL-DTL-24640/01 -\_ \_UN, {TYPE DX} Non-watertight, Two Conductor, Power  
MIL-DTL-24640/02 -\_ \_UN, {TYPE TX} Non-watertight, Three Conductor, Power  
MIL-DTL-24640/03 -\_ \_UN, {TYPE FX} Non-watertight, Four Conductor, Power  
MIL-DTL-24640/04 -\_ \_UN, {TYPE TTX} Non-watertight, Multi Pair 20 AWG  
MIL-DTL-24640/05 -\_ \_UN(UO), {TYPE TTXS, TTXSO} Non-watertight, Shielded Multi Pairs 20 AWG  
MIL-DTL-24640/06 -\_ \_UO, {TYPE 2XAO} Non-watertight, Overall Shielded Multi Pairs 22 AWG  
MIL-DTL-24640/07 -\_ \_UO, {TYPE 1XMSO} Non-watertight, Overall Shielded, Shielded Multi Conductors 22 AWG  
MIL-DTL-24640/08 -\_ \_UO, {TYPE MXO} Non-watertight, Overall Shielded Multi Conductors 20 AWG  
MIL-DTL-24640/09 -\_ \_UN(UO), {TYPE 2XS, 2XSO} Non-watertight, Shielded Multi Pairs 22 AWG  
MIL-DTL-24640/10 -\_ \_UO, {TYPE MXSO} Non-watertight, Overall Shielded Multi Conductors 16 AWG  
MIL-DTL-24640/11 -\_ \_UN, {TYPE 3XS} Non-watertight, Shielded Multi Triads 18 AWG  
MIL-DTL-24640/12 -\_ \_UO, {TYPE 2XO} Non-watertight, Overall Shielded Multi Pairs 26 AWG  
MIL-DTL-24640/13 -\_ \_UN(UO), {TYPE 2XSXO} Non-watertight, Overall Shielded, Shielded Multi Pairs 26 AWG  
MIL-DTL-24640/14 -\_ \_UO, {TYPE 1XSOW} Watertight, Overall Shielded, Shielded Multi Conductors 22 AWG  
MIL-DTL-24640/15 -\_ \_UN(UO), {TYPE 2XSAW, 2XSAOW} Watertight, Shielded Multi Pairs 22 AWG  
MIL-DTL-24640/16 -\_ \_UN(UO), {TYPE 2XSW, 2XSOW} Watertight, Shielded Multi Pairs 18 AWG  
MIL-DTL-24640/17 -\_ \_UO, {TYPE 2XOW} Watertight, Overall Shielded Multi Pair 26 AWG  
MIL-DTL-24640/18 -\_ \_UN(UO), {TYPE 3XSW, 3XSOW} Watertight, Shielded Multi Triads 18 AWG  
MIL-DTL-24640/19 -\_ \_UN(UO), {TYPE DXW, DXOW} Watertight, Circuit Integrity Two Conductor  
MIL-DTL-24640/20 -\_ \_UN(UO), {TYPE TXW, TXOW} Watertight, Circuit Integrity Three Conductor  
MIL-DTL-24640/21 -\_ \_UN(UO), {TYPE FXW, FXOW} Watertight, Circuit Integrity Four Conductor  
MIL-DTL-24640/22 -\_ \_UN, {TYPE 7XW} Watertight, Circuit Integrity Seven Conductor  
MIL-DTL-24640/23 -\_ \_UN(UO) {TYPE MXCW, MXCOW} Watertight, Circuit Integrity Multi Conductor 18 AWG  
MIL-DTL-24640/24 -\_ \_UN(UO), {TYPE TTXW, TTXOW} Watertight, Circuit Integrity Multi Pair 22 AWG

Constructions available armored at customers request



Berk-Tek Electronics Cable  
P.O. Box 909 • Elm City, NC 27822 USA  
252-236-4311 • 252-236-3613 fax • 800-644-4547