

BioCompatic - USP Class VI Silicone Alternative from Northwire and LEMO

Compatible with REDEL Series and features optimal cut, crush and chemical resistance and softer durometer options that offer maximum flexibility and are cost-effective

Robust materials are ideally-suited for health care that translate effectively to achieve high-flex life performance in industrial environments as well. Unlike traditional silicone with long lead times, Northwire's *innovative solutions* are available with the industry's fastest lead times of 5, 10, and 15 days.

BENEFITS:

Single-use and reusable medical-grade cable for applications requiring multiple sterilization cycles - GAMMA, ETO and AUTOCLAVE. Overmold compatible and free of Halogens, phthalates, toxins, and irritants and compliant to REACH, RoHS2, ISO 10993-5, and USP VI. Custom color options available, including exact matches to Pantone or RAL numbers.

DYNAMIC RANGE OF USE:

Diagnostics, patient monitoring, surgical devices, life support and therapeutic applications

Systems for drug delivery and defibrillation

Custom cables, retractiles, and assemblies designed for maximum continuous variable, torsional, rolling and bend flexibility

MATERIAL OPTIONS

	Silicone	Medical-Grade Santoprene™	BioCompatic	BioCompatic II
FEATURES				
Signal	✓	✓	✓	✓
Control	✓	✓	✓	✓
Power	✓	✓	✓	✓
Instrumentation	✓	✓	✓	✓
ATTRIBUTES				
Halogen Free	-	✓	✓	✓
Specific Gravity	-	0.96	0.93	0.92
Shore Hardness "A" (+/-3)	60	65	69	55
Brittle Point	-	-60°C	-80°C	-80°C
Continuous Use Temperature	~180°C	105°C	105°C	105°C
Gurney Wheel Crush Resistance	9,260 cycles	94,800 cycles	186,100 cycles	90,400 cycles
Chemical Resistant	Excellent	Excellent	Excellent	Excellent
Cut Resistant	50 lbs.	75 lbs.	125 lbs.	100 lbs.
Abrasion Resistant	6,200 cycles	11,500 cycles	14,400 cycles	11,500 cycles
Fungal Resistant	*	*	*	*
Anti-Rodent Additive	*	*	*	*
Retractile Applications	Fair	Fair	Excellent	Excellent
STERILIZATION				
Steam Autoclave	500+ cycles	500+ cycles	500+ cycles	500+ cycles
(Discoloration observed)	100 cycles	150 cycles	150 cycles	150 cycles
Gamma	✓	✓	✓	✓
ETO	✓	✓	✓	✓
STERRAD	✓	✓	✓	✓
CHEMICAL RESISTANCE				
Betadine (100%)	✓	✓	✓	✓
Cidex OPA (100%)	✓	✓	✓	✓
Virex II 256 (100%)	✓	✓	✓	✓
Clorox Healthcare Bleach (100%)	✓	✓	✓	✓
Isopropyl Alcohol, IPA (99%)	✓	✓	✓	✓
Hydrochloric Acid, HCL (36%)	✓	✓	✓	✓
FLEXIBILITY				
Torsional Flex	*	*	*	*
Rolling Flex	*	*	*	*
Variable Flex	*	*	*	*
Bend Flex	*	*	*	*
Continuous Flex	*	*	*	*
STANDARDS, AGENCY AND ENVIRONMENTAL COMPLIANCE				
ROHS2	✓	✓	✓	✓
REACH	✓	✓	✓	✓
USP VI	✓	✓	✓	✓
ISO 10993-5	-	-	✓	✓
FDA	-	✓	-	-
FOOD GRADE	-	-	-	-

PRODUCT SPECIFICATIONS

Key: - Not Applicable
 ✓ Featured
 * Cost Competitive Options Available



Cable Construction: <i>BioCompatic</i>	
INSULATED CONDUCTORS	
Conductor Count	2 or more
AWG (mm ²)	36-2 AWG (.0127-33.6)
Stranding - Minimum and Maximum Diameter of individual wires AWG in inches (mm)	*
Insulation Materials	ETFE, ECTFE, FEP, XLPE, PP, PE
OVERALL CABLING	
Fillers	*
Shielding	*
Armoring	*
Wraps	*
Strength Members	*
OUTER JACKET	
Material	TPR
Mutual Capacitance pF/ft (pF/m)	-
Inductance (μH/Ft)	-

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