

CB 0022

### Belden® HaloarrestXLink™ LSZH Thermoset Jacket

HaloarrestXLink thermoset jacket provides optimal oil, abrasion and high-temperature resistance with the safety and compliance benefits of using a low smoke zero halogen compound.



### HaloarrestXLink Jackets Expand Belden Instrumentation and Control Offerings to Address Safety Concerns in Heavy Industry.

#### Thermoset Jacket Solution for Industrial Applications

HaloarrestXLink™ jackets offer non-toxic cable solutions particularly designed for demanding industrial markets including oil and gas, utility and power generation, transportation, petrochemical and mining. Belden offers two thermoset jacketing options: HaloarrestXLink-1 is compliant with the UL-1277 Oil Res I requirement; HaloarrestXLink-2 is compliant with the UL-1277 Oil Res II requirement.

Specifying Belden HaloarrestXLink instrumentation and control cable addresses concerns for worker health and safety, while

ensuring optimum physical integrity. Like Belden's low smoke zero halogen (LSZH) thermoplastic jackets, HaloarrestXLink thermoset jackets provide a safe, non-toxic, non-corrosive alternative for organizations that prefer to use non-halogenated products. In addition, thermoset jackets do not melt at any level of heat or when exposed to flame, protecting workers and preventing damage to expensive machinery.

Belden customers can be certain that when HaloarrestXLink jacketed cables are installed, safety and avoidance of costly downtime are both addressed with an effective solution.

#### Engineered for Installation:

Flame Resistance
Oil Resistance
Weather, Sun Resistance
Abrasion Resistance
Oxidation Resistance
Ozone Resistance

#### Industry Approvals:

UL TC Rated
ER (Exposed Run) Rated
FT4
IEEE 1202
ICEA S-73-532
ICEA S-33-655
Oil Res I (per UL 1277)
*Oil Res II (per UL 1277)
90° C Wet/Dry
IEC 60754-1,-2 Acid Gas Emissions
Low Temp -30° C per UL 1581
*Low Temp -40° C per UL 1581

## Belden HaloarrestXLink LZSH Thermoset Jacket

### Safety Advantages of LSZH

Halogen-containing polymers, such as polyvinyl chloride (PVC) and fluorinated ethylene propylene (FEP) are widely used in wire and cable applications. They are inherently flame retardant. Halogens, when burned, produce smoke and acid gas that are toxic and corrosive, posing a threat to both humans and equipment.

In Europe and increasingly in the US, safety concerns are encouraging the adoption of LSZH jackets in areas where there is limited ventilation, sensitive equipment or unprotected human or animal populations that could be exposed to toxic fumes.

### Ordering Belden HaloarrestXLink-jacketed Products

The Belden part numbering system makes it easy to specify a HaloarrestXLink jacket. Customers use the suffix system in the table below to specify insulation and jacket compounds. For example, if a customer specifies Belden product 1118A (PVC insulation, PVC jacket), but wants XLPE insulation and a HaloarrestXLink jacket compliant with the UL-1227 Oil Res I standard, the finished part number would be 1118U.

### Acid Gas Properties

Property	Measurement	HaloarrestXLink-1	HaloarrestXLink-2
Physical	Tensile	1500 psi	1500 psi
	Elongation	150%	150%
LOI		39	45
Halogen Content		0	0
NBS Smoke Chamber	Flaming Mode	164 DM corrected typical	–
	Smoldering Mode	417 DM corrected typical	–
Acid Gas	IEC 754-2	4.9 pH, 0.7 µS/cm	<4.5 pH, 0.4 µS/cm
Toxicity Index	NES 713	4.6	–
	EN 50305	–	2

### Available HaloarrestXLink-jacketed Cable Options

Description	Instrumentation	Control
Conductor Configuration	Pairs and Triads	Multi-conductor
AWG Size	18 AWG - 4/0 AWG	18 AWG - 4/0 AWG
Voltage	600V	600V
Conductor Count	1 - 50 pairs* 1 - 36 triads*	2 - 60 conductors*
Shielding	Individually foil shielded pairs/triads Overall foil shield Individual and overall foil shields Overall copper tape Overall tinned copper braid	Overall foil shield Overall copper tape Overall tinned copper braid
Armoring	Interlock aluminum Interlock steel Continuous aluminum	Interlock aluminum Interlock steel Continuous aluminum

\*availability depends on AWG size specified

### Conductor, Insulation and Jacket Options\*

Bare	Tinned	Insulation/Jacket
A	B	PVC-Nylon/PVC
C	D	XLPE/PVC
E	F	FRPO/PVC
G	H	XLPE/TPE
K	L	TPE/TPE
M	N	PVC-Nylon/Oil Res I
Q	R	XLPE/CPE
S	T	XLPE/Haloarrest
U	V	XLPE/HaloarrestXLink-1
W	X	XLPE/HaloarrestXLink-2

\* For 1000, 3000, 27000 and 28000 series cables only

To Specify:	
<b>1234</b>	<b>A</b>
Start with part no.	Add or replace letter code