

## INTRODUCTION

### High Performance Wire and Cable

## 1 Complete range of WIRE, COAXIAL, DATA, MULTI-CORE and CUSTOMISED CABLES.

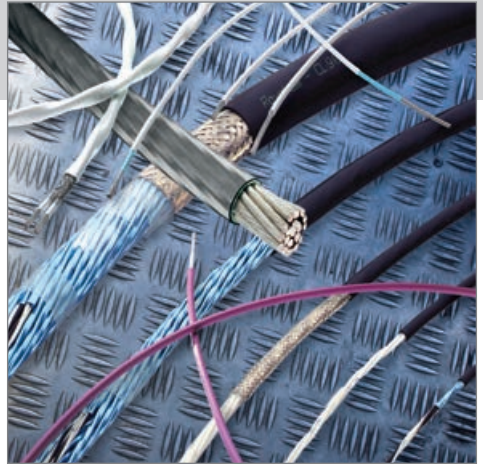
### High performance wire and cable for many applications

An extensive portfolio of wire and cable products are available in a wide range of conductor sizes, constructions and colours. The product range covers primary wire, screened and jacketed multi-core, airframe, coaxial, miniature and custom cables. Typical characteristics include chemical and fluid resistance, lightweight, highly flexible and excellent electrical and mechanical performance. Temperature capabilities range from -65°C to +260°C allowing products to be used in a wide variety of markets and applications. The current stock profile also contains a large selection of Aerospace wire and cables, including XLETFE, XLPE/XLPVDF and Hybrid constructions for use in the majority of today's commercial and military aircraft fleets.

#### Typical Features & Benefits

- Chemical resistance
- Electrical insulation
- Fluid & solvent resistance
- Flexibility
- Flame-retardant, Low Smoke
- Lightweight
- Extreme temperature performance
- Materials available to suit a wide range of markets and applications

We are committed to supplying an extensive range of wire and cable products using the latest insulation technologies, with a wide choice of constructions, conductor sizes and colours.



#### XLPE/XLPVDF (Spec 44 wire)

- Low smoke and corrosive gas generation
- Small size, lightweight dual wall construction
- Excellent chemical resistance
- Resistant to electrical arc tracking
- Operating temperature -65°C to +150°C

#### XLETFE (Spec 55 wire)

- Single and dual wall constructions
- Small size, lightweight and high strength
- Exceptional chemical and fluid resistance
- Resistant to electrical arc tracking
- Meets FAR25 flame test
- Operating temperature -65°C up to +200°C

#### XL Modified Polyester (Spec 99 wire)

- Low smoke generation
- Low flammability and low toxicity
- Operating temperature -55°C up to +120°C

#### HYBRID (ASN-E, ACT & KP)

- Low smoke generation
- Excellent chemical resistance
- Small size and ultra lightweight construction
- Resistant to wet arc tracking
- Temperature range from -65°C up to +260°C

#### PTFE Wire

- Excellent chemical resistance and very high dielectric performance
- Silver and Nickel plated conductors
- Mechanically tough and flexible
- Non-flammable
- Operating temperature -75°C up to +260°C

**HIGH PERFORMANCE**

44 Wire	Dual wall, 150°C rated, XLPVDF	page 8
	Ordering and building your part number	page 12
55 Wire	Single or dual wall, 200°C rated, XLETFE	page 14
55 Wire, cross ref	Defence Standard 61-12 Part 33/001	page 21
	Ordering and building your part number	page 22

**LOW FIRE HAZARD**

99 Wire	Dual wall, 120°C rated, low fire hazard	page 24
	Ordering and building your part number	page 28

**TAPED AIRFRAME WIRE**

ASN-E Wire	Airframe, 260°C rated, tape wrapped	page 30
ACT 150 Wire	Airframe, 150°C rated, tape wrapped	page 32
ACT 260 Wire	Airframe, 260°C rated, tape wrapped	page 34
KP 260 Wire	Ruggedised Airframe, 260°C rated, tape wrapped	page 36

**EQUIPMENT WIRE and CABLING**

PTFE Wire	Single wall, 260°C rated fluorocarbon polymer	page 38
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**HIGH SPEED, LIGHTWEIGHT WIRE and CABLE**

Cheminax Coaxial Cable	Small lightweight, rated up to 200°C	page 39
Data Cables	Ethernet and USB	page 43
Coaxial Cables	RF 50 Ohm and Video 75 Ohm	page 44
Micro Cables	X and Ku band	page 45

**OTHER MULTICORE CABLES**

Zerohal Marine Cable	UK Defence standard 61-12 part 25	page 46
Specialist Cables	Nuclear, Defence, Robotics and Sub-Sea	page 48

**CUSTOM MULTICORE CABLE DESIGN**

Custom Designed Cables	Multi-conductor cables, custom designed	page 50
Technical data	Design attributes and performance	page 53