

# *iS* Rayfast

## Company Presentation 2017



Aerospace | Defence | Energy | Industrial | Marine | Motorsport

## DIPLOMA PLC

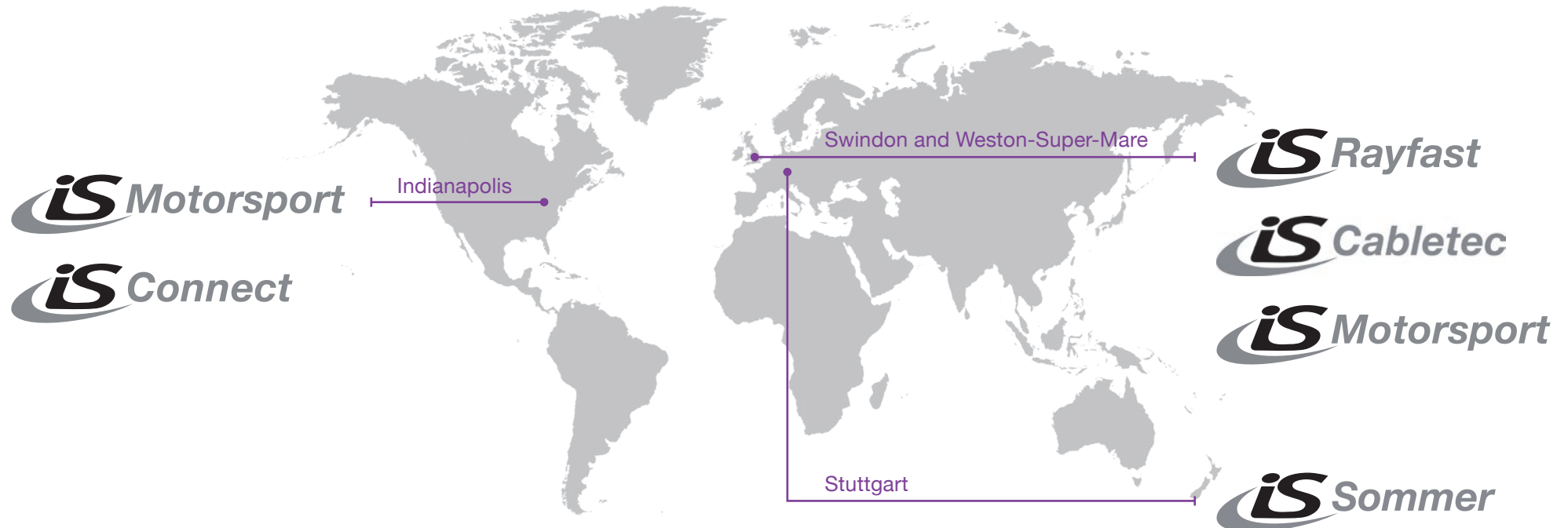
The parent company Diploma PLC owns a portfolio of businesses supplying specialised technical products and services, who operate globally in three sectors:

**LIFE SCIENCES • SEALS • CONTROLS**

**Total FY16 Revenue £382.6m +15% on year**

The IS-Group part of the business supply specialised wiring, connectors and components used in a range of technically demanding applications.

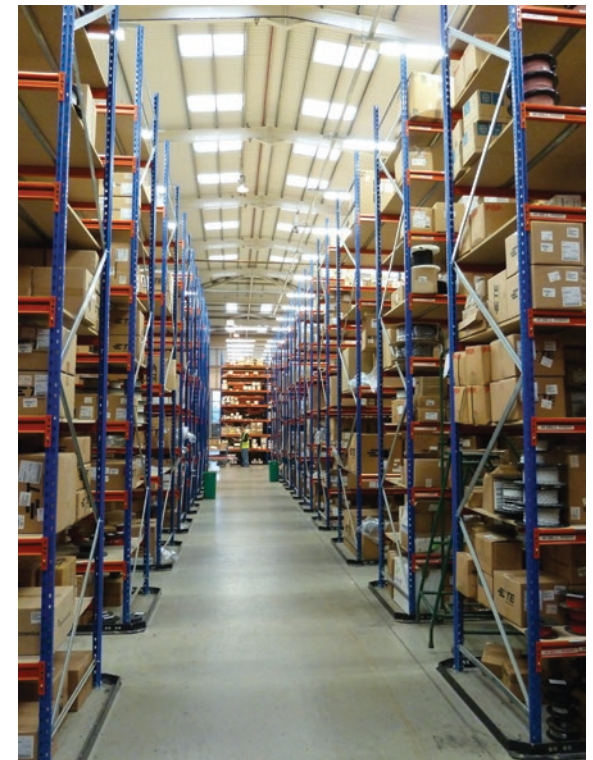
**IS-Group turnover £44.7m and ~170 employees over the four locations.**



IS-Group and IS-Rayfast headquarters are based in Swindon, just off the M4.

£9m+ inventory value across all locations

- 33,000 sq ft Warehouse, Swindon
- ~£5.25m Stock Value
- ~2400 product lines
- ~70 employees



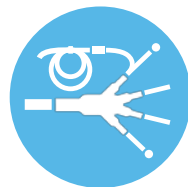
“To be the Supplier of Choice for Electrical Harnessing Components and Associated Products”



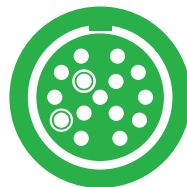
Wire and Cable



Tubing Products



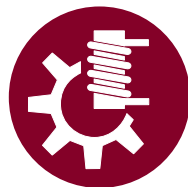
Harness Components



Connectors



Earthing Products



Electro-Mechanical



Additional Products



Assemblies

# Key Markets



Aerospace



Defence



Energy



Industrial



Marine



Motorsport



# Products Overview

Components



Heat Shrink Boots and Transitions

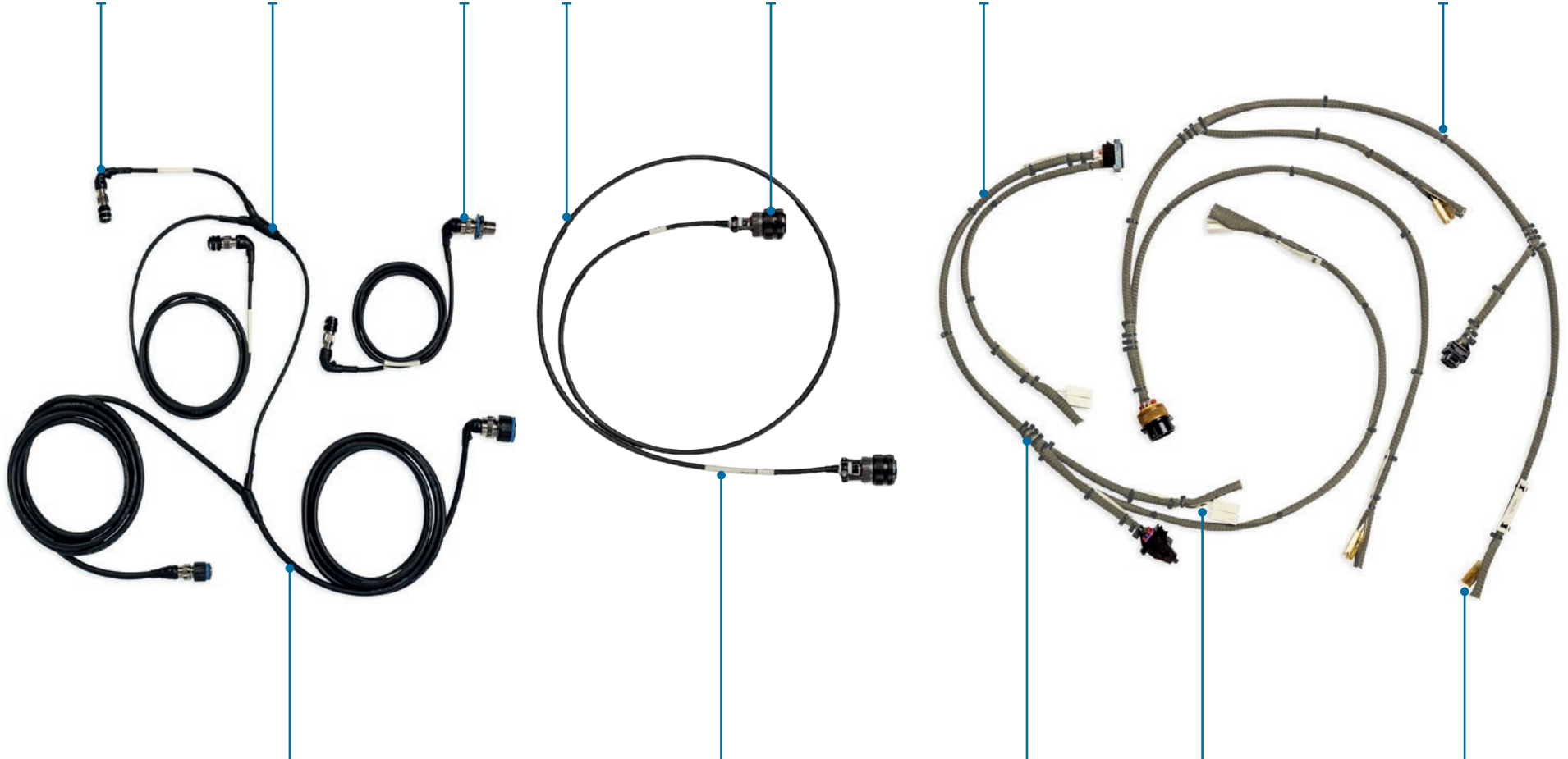
Backshells

Multicore Cable

Connectors

Braided Sleeve

Lacing Tapes and Cable Ties



## ASSOCIATED PRODUCTS

Heat Shrink Tubing

Identification

Splices

Wire

Terminals and Contacts

- Bonding leads
- Relays and contactors
- Switches and grips
- Tapes and adhesives
- Application equipment

## Wire and Cable



### Equipment and Airframe

- Spec 44, 55, 99 and 100 wire
- BS 3G210 and Nema HP3
- M22759, M27500 and M81044
- EN2266, EN2267, EN2713, EN274...
- BMS 13-48 and BMS 13-60

### High Speed Data

- Ethernet, Cat 5e, 6a and 7
- Quadrax and USB
- Databus MIL-1553, CanBus

### Coaxial

- MIL-C-17 as applicable
- 50Ω RF, GPS, TCAS & 75Ω HD Video
- Ku and X Band assemblies

### Power Cable and Multicore Cable

- Marine Def Stan 61-12
- Custom designed

## Tubing



### Heat-Shrink Tubing

- Single wall and dual wall, many of which are AMS-DTL-23053 approved
- Flexible
- Fluids and chemicals resistant
- LFH and Zero Halogen
- ATUM
- DR-25
- HTAT
- RNF-100 and RNF 3000
- RW-175E and RW-200 E
- ZH-150 zero halogen up to 150°C
- ZHT zero halogen colours

### Non-Shrink Tubing

- Neoprene
- Silicone
- PTFE
- PVC

## Braided Sleeving



### Mechanical Protection

- Roundit 2000 FR, V0, NX, etc
- Expando 686 DM, HTNS, Peek, etc

### Electrical Insulation

- GES 40, 100 and Ben-Har 1151

### Thermal and Fire Insulation

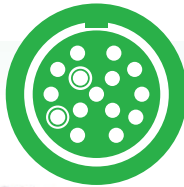
- Textalu 1202 and Thermotubix Aerospace

### Electromagnetic Shielding

- Raybraid and HBT99 tubular metal screening braids, offering up to 99% optical coverage
- Wraparound 'Roundit' screening braid



## Connectors & Backshells



### Connectors

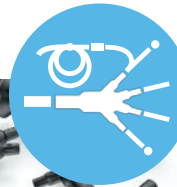
- MIL-DTL-38999 Series III and EN3645
- MIL-DTL-26482 Series II
- MIL-DTL-83723 Series I and II
- ARINC 809, BACC65, EN4165
- Deutsch 369 and DMC-M series
- DT Series family from Deutsch

### Backshells

- Screened and unscreened
- Braided tail, Tinel-Lock, Band-Strap, Constant-Force Spring etc...
- Dust caps and accessories



## Moulded Parts



### Heat Shrinkable Boots

- Micro boots
- Lightweight 'InstaLite' boots
- Uncoated or adhesive lined

### Transitions

- 'Y', 'T' and multi-branched

### Materials

- Fluids and chemicals resistant
- LFH and Zero Halogen
- High temperature

### Glands and Feedthroughs

- KTKK, TCFS/TCFR, CES etc



## Terminals and Splices



### Wire to wire splicing

- CWT, B-155, D-1744
- D-406 and D-436
- RoHS compliant

### Terminals and Disconnects

- B-106, SGRT

### Shield Termination

- RoHS compliant
- SAE-AS83519 approved
- M83519 qualified
- NAS 1747 approved

### Coaxial Cable Termination

- RoHS compliant.
- CWT, B-155, D-607, B-046, etc

### Shielded Contacts

- D600 series for MIL-DTL



## Wire / Cable Markers



### Heat Shrinkable and Tie On

- Commercial grade and military grade
- Fluid (Diesel) resistant, D-SCE
- LFH and Zero Halogen, HX-SCE and ZHD-SCE

### Adhesive Labels

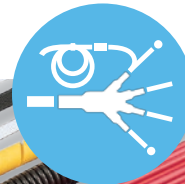
- Self laminating polyester and PVF
- Continuous polyester and metallised
- Tamper evident

### Hardware and Software

- T200, TE3112 thermal printers etc
- WinTotal software
- Thermal transfer ribbon and printer accessories



## Cable Management



### Cable Ties

- Nylon, Tefzel, Stainless Steel etc
- Mil ref MS3367\*
- Cable tie mounts etc
- Harness clips, mounts etc

### Protective Edging

- Spring-Fast M22529/2
- GEPR, Rayrim and TPEM

### Lacing Tapes / Over-braiding Yarn

- CID-A-A-5208\* (MIL-T-4345)
- Nylon MIL-T-713
- Nomex MIL-C-572



## Earthing Products



### Bonding leads

- Round, Rope, Flat, High Flex etc...
- EN4199 standards for aerospace and defence applications
- Airbus ASNE0088 to 0092, Typhoon, PAN6619, LN9264, CSP48 and AGS2097
- Custom build

### Metal braids

- Power shunts
- Flat and round braids, plus custom



## Electro-Mechanical



### Relays and Contacts

- Miniature M39016\*
- Crystal Can M39016\*, M5757
- Mid range M8353, M6106
- Time delay M83726 and others
- High Voltage M6106 and others
- High Current EV100, EV200, CAP etc...
- Commercial EN61373 and EN50155

### Switches and Grips

- Mil Spec QPL'd
- Toggles, Pushbutton, Rocker, Slide, Joysticks and Grips
- Hall Effect
- Custom build options



## Additional Products



### Adhesives and Tapes

- Including performance epoxy and sealant tape solutions from TE Connectivity
- High temperature epoxy and ceramic solutions (up to 3000°C) from Cotronics

### Application Equipment

- To help install the products we can supply, from heat guns to crimp tools



## Assemblies



### Swaged Products such as

- Latch release cables
- Wire rope & lanyard assemblies

### Assemblies

- Fly and tail leads

### Over-Braiding custom services

- Cables, conduits, hoses, armouring, screening etc...

If you have a need please ask



# Key Supplier Partners



**Key Account Managers** - 10 strong experienced team for site visits, covering UK and EMEA.

**Technical Support** - 3 dedicated technical support specialists, available by telephone, email and shortly via online chat.

**Internal Sales Team** - 16 office based personnel for your enquiries, orders and sales support.



## Cutting, Spooling & Pre-Print



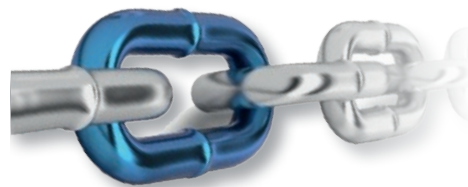
- Cut piece tubing and sleeving
- Wire and cable spooling
- Pre-print services for heat shrinkable wire and cable markers, tie on markers and adhesive labels
- Kitting solutions



## Supply Chain Solutions



- IS-Group satellite warehouse facilities in Germany and USA
- Long term agreements
- Buffer stock.
- Call off and scheduled delivery options.
- Lead time reduction
- Vendor reduction, reducing overall costs.



## Logistics



- Office hours 08:00 to 17:30
- UK Next Day Delivery, stocked items
- 98%+ OTD
- Flexible MOQ's
- Component Kitting
- KanBan + Consignment Stock
- Component Sampling

# IMPROVED Website Coming Soon



Users will be able to easily search products based on a number of different technical attributes and compare similar products and stock holding.

[www.is-rayfast.com](http://www.is-rayfast.com)



# Quality / Customer Approvals



We are fully committed to complying with the latest quality approvals for the customers and markets that we serve, including...



Quality Management System  
EN 9120:2010  
ISO 9001:2008  
EN 9104-001:2013



Airbus Helicopters | BAE Systems | Bombardier | GKN Aerospace |  
Leonardo | RS Components | Farnell | Safran | Thales |  
Ultra Electronics | Zodiac Aerospace

THANK YOU

ANY QUESTIONS?