



Military products

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Company overview

- Nestor Cables Ltd. is a trusted supplier and manufacturer of fibre optic, copper and specialized cables and fibre optic accessories for the telecommunications sector
- Company founded 2007
- Modern factory. Very successful start-up in 2008 after installation and delivery in 2007.
- Founders, management and other personnel have long-term experience on the branch from Nokia Cables Ltd and Draka NK Cables Ltd.

European Regional Development Fund and TE Centre for Northern Ostrobothnia have granted investment support for Nestor Cables Ltd. and Finnvera Ltd. have participated its financing.



Locations

- Factory is located in Oulu, Finland
- Sales and marketing unit is located in Espoo, in the Helsinki Metropolitan Area.
- Regional offices in Russia (Sankt-Petersburg) and Romania (Bucarest)



Process and technology

- Modern process and technology handled with top professionals.
- Fully automated, most modern Mallefer manufacturing process.

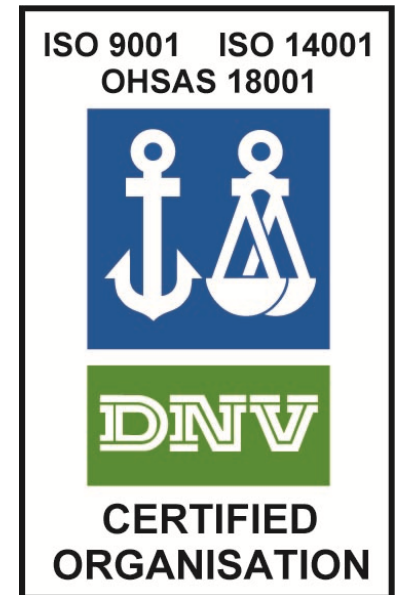


Success factors

- Strong and long-term experience in the cable branch
 - Personal relations
 - Business situations
 - Products, technology, materials, etc.
 - Experience in producing products to very harsh and challenging Nordic environment
- Close existence on the market area
- Modern production technology and efficient processes
- Customer service throughout the organisation
- Profitable growth
- Close relationship with process vendor

Quality and processes

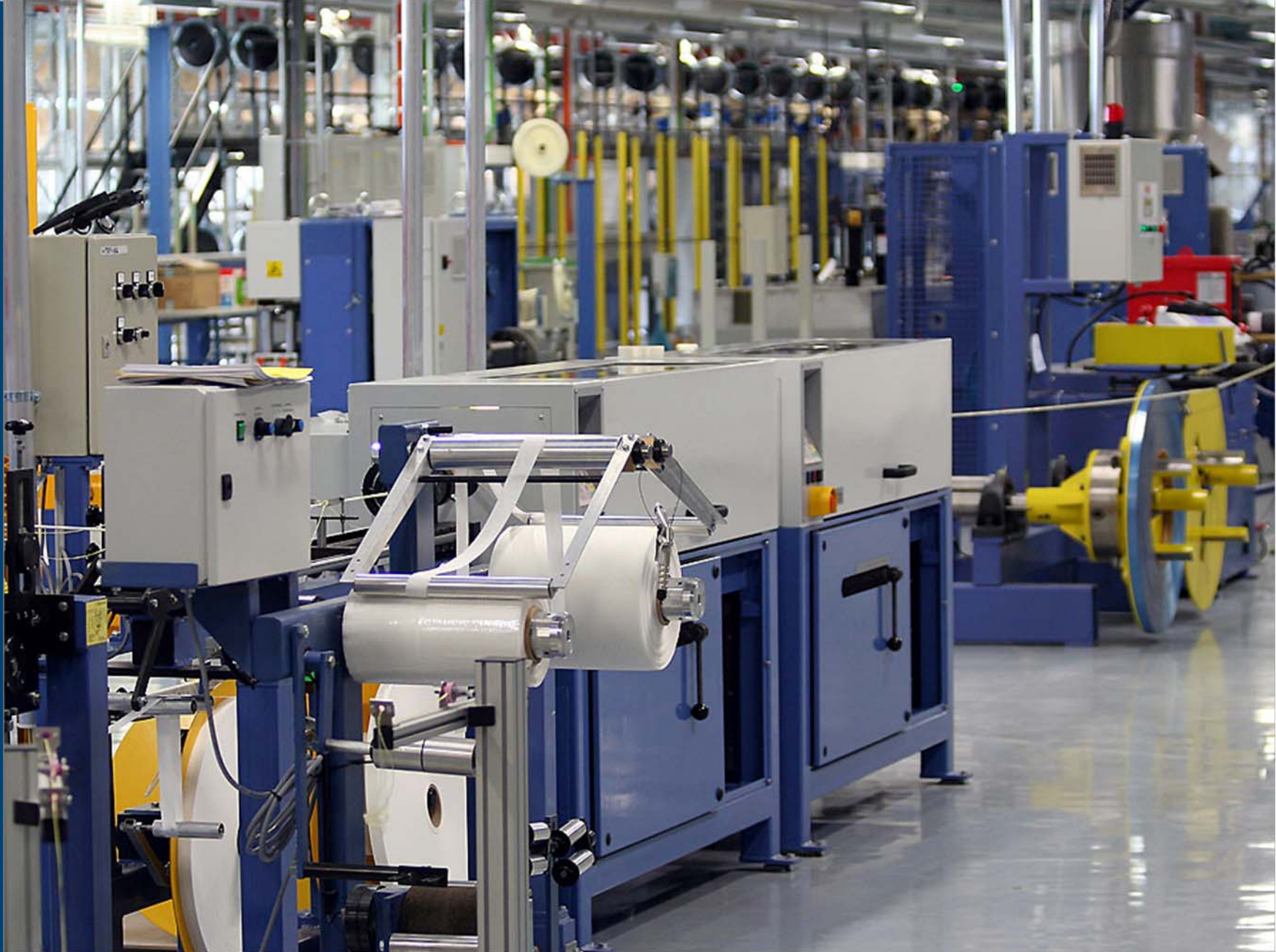
- Management system is certified in accordance with
 - ISO 9001 Quality
 - ISO 14001 Environment
 - OHSAS 18001 Health and Safety



Production

- Modern Mallefer processes for manufacturing of optical and metallic communication cables
 - Fully compatible for the needs of construction of today's communication networks.
- Flexible capacity
 - Max. 1 mill. wire kms (up to 30 000 cable kms) of metallic cables
 - Up to 2 mill. fibre kms (up to 30 000 cable kms) of optical cables
- QA & testing facilities for all necessary routine and type tests with climate conditioning facilities.
- Production facilities
 - Area 7000 m² (140 m x 50 m).



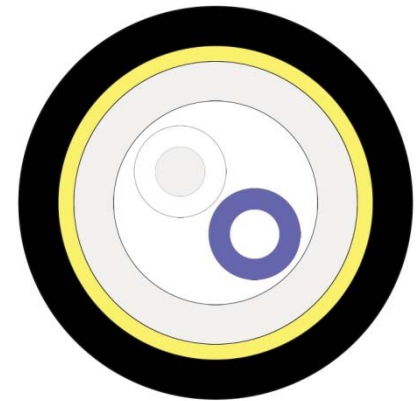




Optical fibre cables – military applications

Tactical single-mode fibre optic cable

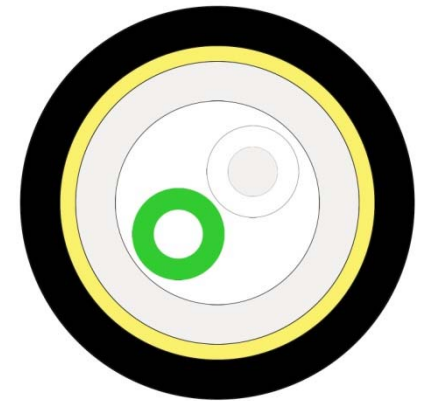
- Non-metallic single-mode optical fibre cable for tactical applications
- Buffered and colour-coded single-mode fibres (G.652.D or G.657.A)
- Inner sheath (thermoplastic polyether-polyurethane)
- Layer of aramide yarns
- Outer sheath (UV resistant black thermoplastic polyether-polyurethane-elastomer)
- Cable diameter 4,6 mm and weight 17 kg/km
- Temperature range -40 - +60 °C
- Reels
 - Big reel (up to 3 km) – 23,5 kg; small reel (up to 800 m) – 2,9 kg



FTMRMU

Tactical multimode fibre optic cable

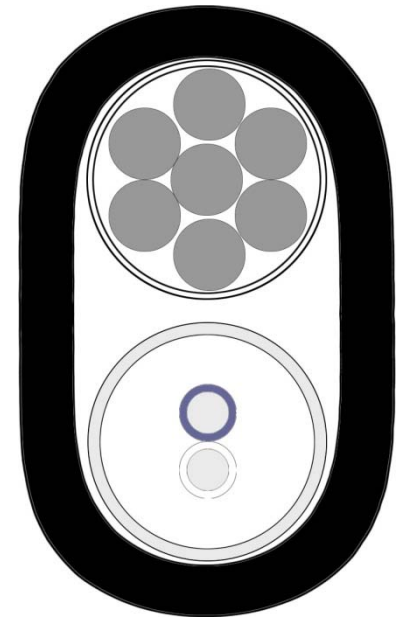
- Non-metallic multimode optical fibre cable for tactical applications
- Buffered and colour-coded multimode fibres (50/125 OM2)
- Inner sheath (thermoplastic polyether-polyurethane)
- Layer of aramide yarns
- Outer sheath (UV resistant black thermoplastic polyether-polyurethane-elastomer)
- Cable diameter 4,6 mm and weight 17 kg/km
- Temperature range -40 - +60 °C
- Reel (up to 800 m) – 2,9 kg



FTMRMU
(also known as Z2FR)

Tactical fibre optic cable

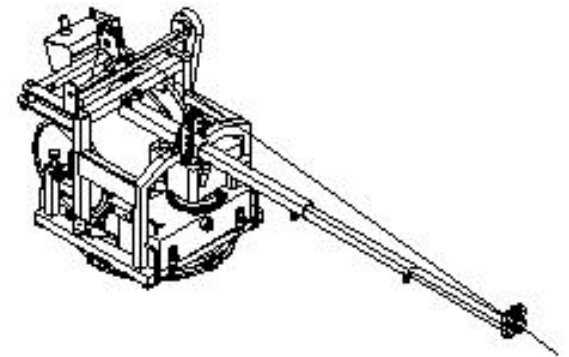
- Optical fibre cable for tactical applications. Suitable for installation in water
- Buffered and colour-coded single-mode fibres (G.652.D or G.657.A)
- Inner sheath (thermoplastic polyether-polyurethane)
- Plastic coated steel strand. Nominal size 7x0,7 mm
- Water tight (water swellable material under the sheath)
- Outer sheath (UV resistant black thermoplastic polyether-polyurethane-elastomer)
- Cable diameter 6,5 x 4,5 mm and weight 40 kg/km
- Temperature range -40 - +60 °C
- Reel (up to 3 km) – 23,5 kg



FTMPMU

Delivery of tactical fibre optic cables

- Cables are connectorised with expanded beam connectors (lens)
- Specified for harsh field applications
- Cable delivery and laying
 - Big reels: using vehicle and motorised laying and recoiling equipment
 - Small carry-on reels: using backpack type carrying and laying accessory
- Patch cords (various lengths, e.g. 5 m) connectorised with field connector and indoor connectors



Copper cables – military applications

Tactical copper cables

- KEKMEN
 - Conductor
 - Stranded four tinned copper wires and three zinc coated steel wires. Diameter of the wires is 0.28 mm. Nominal conductor diameter is 0,85 mm
 - Sheath: PE inner layer and PA outer layer
 - Two conductors stranded into a pair
- KJMRRM
 - Conductor
 - Stranded seven tinned copper wires 0,22 mm²/7x0,20 mm
 - Four insulated conductors are twisted into a star quad
 - Sheath: PE inner layer, aramid layer and black outer layer made of thermoplastic elastomer
 - LF characteristics specified up to 1 MHz
- KAM
 - Attack cable; typically disposable cable
 - Figure-of-eight construction
 - 2 x 0,56 aluminium conductors
 - PE sheath

nestor
cables

