



Our Highspeed Solution for Data Transmission

The brandnew Draka railfoot cable with optical fibres.

Highspeed on the track **Draka Fibre Optic Railfoot Cable**

The Draka Fibre Optic Railfoot Cable

Railfoot cables with copper conductors are available since a while. They are used in places where an economic and fast installation is required. With the new Draka fibre optic railfoot cable completely new possibilities arise.

Why Installation at the Railfoot

The installation of railfoot cables is a lengthy and expensive process. Trenches need to be dug, and channels or troughs need to be put in place. Until a few years ago the only alternative available was to hang the cable from masts or poles.

A few years ago, Draka has developed a railfoot cable with copper conductors, which is suitable for an easy and fast installation even in difficult terrain: directly on the railfoot.

With the Draka fibre optic railfoot cable we go one step further. For the feeding of the GSM-R technology, placed on masts alongside the track, we have developed a cable which not only supports the high data rates of the GSM-R technology but is also able to withstand the enormous vibration forces in the railfoot position. Our longterm experience in developing and manufacturing of vibration-stressed railfoot cables mirrors in the cable design of the new Draka fibre optic railfoot cable.

Draka Fibre Optic Railfoot Cable

The complex cable design with vibration-reducing yarns, guaranteeing at the same time the longitudinal water tightness, and the metal free armouring, also having a supporting and vibration-reducing characteristic, makes the use of the fibre optic railfoot cable possible on non-electrified sections with maximum track speeds of 160 km/h.

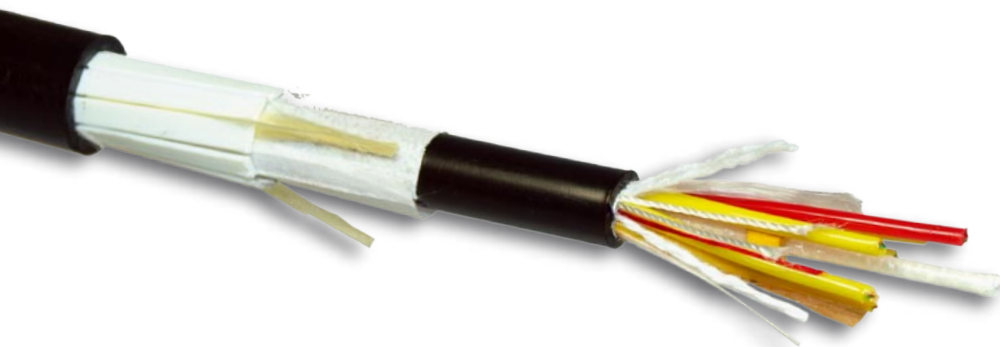
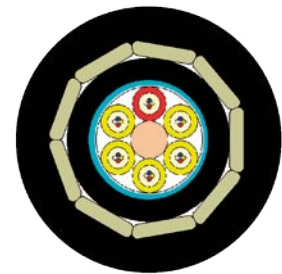
The use of premium single mode fibres guarantees highest data rates and best transmission reliability.

Design Fibre Optic Railfoot Cable

Fibre:	single mode fibre acc. to ITU-T G.652.D (with reduced water peak)
Twisting:	6 x 4 fibres, loose tube, filled
Water tightness:	dry core with water swellable elements
Moisture barrier:	copolymer coated Al-tape, bonded to inner PE sheath
Armouring:	metal free, FRP-elements
Outer sheath:	HDPE, 2 ripcords
Outer cable diameter:	approx. 14.4 mm

Applications

The possible applications for the Draka fibre optic railfoot cable are manifold. Besides the mentioned GSM-R application, other data and telecommunication applications are as well imaginable as renting the cable to companies or public authorities.



Draka Signalling Cables: the Program

Draka not only manufactures fibre optic railfoot cables. We are in close relationship with major railway operators to provide support in defining standards.



Signalling Cable Range

Draka's range for signalling cables includes the following products:

- Balise cables
- Cables for ETCS
- Cables for GSM-R
- LZB- and PZB-cables
- Standard signalling cables
 - in single core, pair or quad stranding
- Cables for telecommunication
- Aerial cables
- Cables for railfoot installation
- Cables with armouring
- Cable with reduction factor
- Cables with transversal and/or longitudinal water tightness
- Concentric or bundled cables
- copper conductor and/or fibre optic and more



Range of Standards

We produce according to the standards of major European railway operators, like:

- Deutsche Bahn AG, Germany
- CFR, Romania
- MÁV, Hungary
- RFI, Italy
- SBB, Switzerland
- ÖBB, Austria
- Irish Rail, Ireland
- British Rail, UK
- London Underground, UK
- RENFE, Spain

We provide customers worldwide with our signalling cables.



Certifications and Quality

Our customers judge us by the quality of our cables and services. Top quality is not achieved by chance. It is much more the consequence of an intensely felt demand for quality which permeates all sectors of the company and the quality management which results from this. The guiding principle of GMP (Good Manufacturing Practice) is that quality is built into a product, and not just tested into a finished product.

Draka has been awarded the certificate of LGA Intercert for successful implementation of a Quality Management system according to DIN ISO 9001 as well as the suppliers' evaluation and certification as Q1-supplier of Deutsche Bahn AG. This is simply public confirmation of the complex quality process within the company. We employ regular audits, customer surveys, evaluation of test reports and comprehensive laboratory analysis and certification from other national and international companies and committees. As a result, we guarantee quality at the highest level.





Draka

Draka Comteq has offices and production facilities all over the world. To get in touch with us and find out how we can help you build your network, visit our website at www.draka.com or contact us at:

Our offices in the EMEA region:

Austria*

Trillergasse 8
A-1210 Vienna
Phone: +43 1 294 0095 16
Telefax: +43 1 294 0095 97
brigitte.leitner@draka.com

*) incl.: Hungary, Czech Rep., Slovakia, Slovenia, Albania, Macedonia, Romania and Bulgaria

Denmark

Priorparken 833
DK-2605 Broendby
Phone: +45 43 48 20 50
Telefax: +45 43 48 26 59
br.info@draka.com

Finland *

Kimmeltie 1
FIN-02110 Espoo
Phone: +358 10 56 61
Telefax: +358 10 56 63 394
fi-info@draka.com

*) incl.: Baltic countries, Poland, Ukraine, Belarus, Georgia and Armenia

France

Le Sophocle - Parc de Algorithmes
9, Avenue du Marais
F-95100 Argenteuil
Phone: +33 1 34 34 41 30
Telefax: +33 1 30 76 40 12
dcf.sales@drakacomteq.com

Germany

Friedrichshagener Strasse 29-36
D-12555 Berlin
Phone: +49 30 654 85 760
Telefax: +49 30 654 85 602
berlin.info@draka.com

Germany*

Piccoloministrasse 2
D-51063 Cologne
Phone: +49 221 677 0
Telefax: +49 221 677 3890
koeln.info@draka.com

*) incl.: Switzerland

Germany

Bonnenbroicher Strasse 2-14
D-41238 Moenchengladbach
Phone: +49 21 66 134 0
Telefax: +49 21 66 134 1000
kabel.mg@drakacomteq.com

Netherlands (HQ - Comteq Cable Division)

De Boelelaan 7 - Building Officia I
NL-1083 HJ Amsterdam
Phone: +31 20 56 89 865
Telefax: +31 20 56 89 409
comteq.info@draka.com

Netherlands (HQ - Comteq Fibre Division)

Zwaanstraat 1
NL-5651 CA Eindhoven
Phone: +31 40 295 87 00
Telefax: +31 40 295 87 10
fibresales@draka.com

Netherlands *

Zuidelijk Halfmond 11
NL-2801 DD Gouda
Phone: +31 182 59 21 00
Telefax: +31 182 59 22 00
nl.dct.info@draka.com

*) incl.: Belgium and Luxembourg

Romania *

NK Cables Ltd.
10, Montreal Place, WTC
Eingang F, 1. Stock
Phone: +40 21 202 3057
Telefax: +40 21 202 3100
vladimir.doicaru@draka.ro

*) incl.: Greece and Moldavia

Russia

NK Cables Ltd.
8th Verkhny pereulok, 10
RUS-St.Petersburg, 194292
Phone: +7 812 592 84 79
Telefax: +7 812 592 77 79
office@nevacables.ru

Spain

Av. de Bilbao 72
E-39.600 Mallaño - Cantabria
Phone: +34 942 24 71 00
Telefax: +34 942 24 71 14
ana.sierra@draka.com

Spain*

Can Vinyalets núm. 2
E-08130 Sta. Perpetua de la Mogoda -
Barcelona
Phone: +34 935 74 83 83
Telefax: +34 935 60 13 42
josep.cabrera@draka.com.es

*) incl.: Portugal and Italy

Turkey*

Ebulula Cad. 4.
Gazeteciler Sitesi A 14-4
Levent-Besiktas
TR-Istanbul
Phone: +90 212 280 25 59
Telefax: +90 212 280 32 08
mea-info@draka.com

*) incl.: All other countries of Africa and Middle East

United Kingdom*

Crowther Road, Crowther Industrial
Estate, Washington, Tyne and Wear,
NE38 0AQ
Phone: +44 191 415 50 00
Telefax: +44 191 415 82 78
comtequk@draka.com

*) incl.: Ireland

**Our European
production centres:**

Denmark
- Broendby

Norway
- Årnes

France
- Calais Cedex
- Haisnes Cedex

Germany
- Berlin
- Nuremberg
- Moenchengladbach

Netherlands
- Eindhoven
- Delfzijl

Russia
- St. Petersburg

Slovakia
- Presov

Spain
- Santander

United Kingdom
- Washington, Tyne and Wear