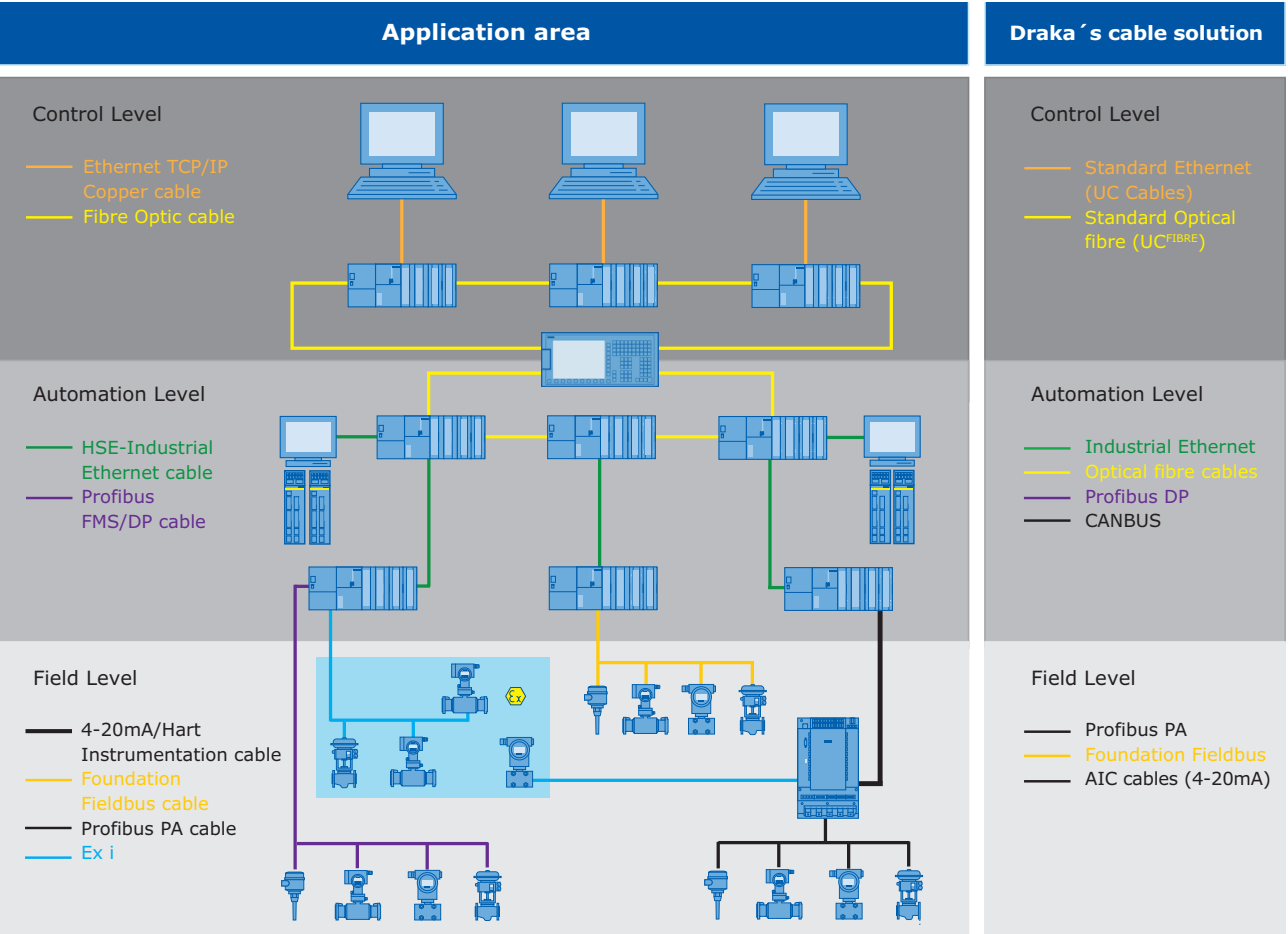




We make communication technology work, by serving you in every way to realize your leading edge network solution

We have our 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/communications or contact us.

INDUSTRIAL COMMUNICATION SOLUTIONS

ETHERNET AND BUS CABLES FOR INDUSTRIAL AUTOMATION.
RELIABLE DATACOMMUNICATION WITH DRAKA ICS.



MICE-Matrix

MICE is the heading under which the demands for wiring is covered in a standardized way. A set of requirements is defined which consists of mechanical (M), ingress (I), climatic (C) and electromagnetic (E) components. A difference is made between three categories (1, 2 and 3): office (1), light industry (2) and heavy industry (3).

The crucial factor: a newly designed product, built up from experience must demonstrate the right combination of properties for its envisaged purpose.

The main criterion when categorising as “light” and “heavy” duty is the impermeability against dust and/or liquids. The industrial environment is generally harsher and the cable is affected by:

- chemical substances such as oils, solvents, etc.
- constant movement or vibration during use e.g. in drag chains
- wider range of ambient temperatures

- electromagnetic influences
- both on the cable as well as caused by the cable.

Draka is able to produce Industrial Ethernet and buscables with all kinds of protective layers. Upon request Draka can provide the MICE classification for the various cable designs.

	Class		
Mechanical	M ₁	M ₂	M ₃
Ingress	I ₁	I ₂	I ₃
Climatic	C ₁	C ₂	C ₃
Electromagnetic	E ₁	E ₂	E ₂

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Prysmian Group
a leading player in the cable industry



2011 will go down in the history of the cable industry as the founding year of a successful fusion. With 22,000 employees across 50 countries, sales of some € 7 billion and 98 plants, the new Prysmian Group is the world leading manufacturer of cables and accessories for the energy and telecommunications industry.

In the energy sector, the Prysmian Group portfolio ranges from high voltage and extra high voltage underground and submarine power transmission cables, medium and low voltage cables for the construction and infrastructure industry to special cables for applications in these industries. The telecommunications portfolio includes cables and accessories for the voice, video and data transmission industry as well as optical fiber cables for almost all communication applications.

The Prysmian Group has a strong position in high-tech markets and in the production of optical fiber cables. With its know-how, first-class products, services and technologies, the Prysmian Group provides solutions for all market segments. Innovation, customer satisfaction and outstanding service make the Prysmian Group with its global presence the leader in the cable industry.

More information here: www.prysmiangroup.com

Industrial Communication Solutions

An interesting cabling concept for industrial automation has established itself under the keyword ICS (Industrial Communication Solutions). It concerns the structured cabling of industrial plants similar to the cabling used for office communications.

Ethernet in industry is increasingly asserting itself because the communication standard used in countless office applications can be classified today as being simple, cost-effective and highly flexible, as well as having broad support on the system side.

Industrial Ethernet and bussystems are proven standards in the industry. More and more plants are completely equipped with these systems and connected with special cabling, functioning in every environment.

Access to specific areas throughout the network makes adjustments and changes easily manageable.

This results in few periods of downtime and, as a result, gains in productivity.



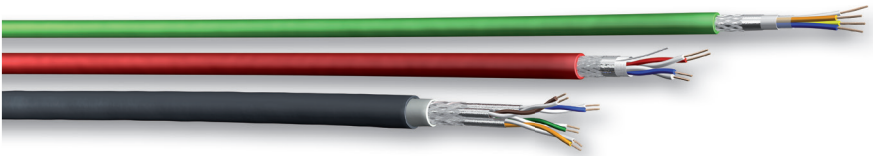
How can we help you build your network?



Product overview

Cable type (acc. to DIN/VDE)	Product Name	Colour
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Ethernet Cable Range - 100 W



2YY(ST)CY 2x2x0.64/1.5-100 Cat.5e	ICS IE FC INST 2x2xAWG22/1 Cat 5e PVC	Green
Li-2YY(ST)CY 2x2x0.75/1.5-100 Cat.5e	ICS IE FC FLEX 2x2xAWG22/7 Cat 5e PVC	Green
Li-2YY(ST)C11Y 2x2x0.75/1.5-100 Cat.5e	ICS IE FC 2x2xAWG22/19 Cat 5e TRAILING PUR	Green
A-02YSC2Y 4x2x0.56 PiMF-100 Cat.7	ICS IE UC900 SS23 Cat 7 PE	Black
J-02YSC11Y 4x2x0.56 PiMF-100 Cat.7	ICS IE UC900 SS23 Cat 7 PUR	Green
J/A-02YSC(L)H 4x2x0.56 PiMF-100 Cat.7	ICS IE UC900 SS23 Cat 7 (L)H LSHF-FR	Black
Li-02YSC11Y 4x2x0.42 PiMF-100 Cat.7	ICS IE UC900 SS27 Cat 7 PUR	Red
Li-2YCH 4x2xAWG24/7 PiMF-100 Cat.5e	ICS IE ToughCat 5e LSHF-FR	Grey
Li-2YCHH 4x2xAWG24/7 PiMF-100 Cat.5e	ICS IE ToughCat 5e LSHF-FR MUD	Black
Li-2YCH 4x2xAWG23/7 PiMF-100 Cat.7	ICS IE ToughCat 7 LSHF-FR	Grey
Li-2YCHH 4x2xAWG23/7 PiMF-100 Cat.7	ICS IE ToughCat 7 LSHF-FR MUD	Black
02YSCH 4x2xAWG23/1 PiMF-100 Cat.7	ICS IE ToughCat 7S LSHF-FR	Grey
02YSC(F)H 4x2xAWG23/1 PiMF-100 Cat.7	ICS IE SuperCat 7S LSHF	Black
J-2Y/2G(ST)CH 1x2x0.65-100	ICS IE FIRETUF DATA 1P LSHF-FR	Red
J-2Y/2G(ST)CH 2x2x0.65-100	ICS IE FIRETUF DATA 2P LSHF-FR	Red
J-2Y/2G(ST)CH 4x2x0.65-100	ICS IE FIRETUF DATA 4P LSHF-FR	Red

PROFIBUS DP 150 W



02YS(ST)CH 1x2x0.64/2.55-150	ICS PB DP BASIC 1x2xAWG22/1 LSHF	Violett
02YSH(ST)CH 1x2x0.64/2.55-150	ICS PB DP FC 1x2xAWG22/1 LSFH-FR	Violett
Li-02YSY(ST)C11Y 1x2x0.64/2.55-150	ICS PB DP FC 1x2xAWG22/19 TRAILING PUR	Petrol
Li-02YSY(ST)C11Y 1x2x0.64/2.55-150	ICS PB DP FC 1x2xAWG22/19 PUR	Violett
02YSH(ST)CH2Y 1x2x0.64/2.55-150	ICS PB DP FC 1x2xAWG22/1 PE	Black
02YSH(ST)CHQH 1x2x0.64/2.55-150	ICS PB DP FC 1x2xAWG22/1 SWB FRNC	Violett

PROFIBUS PA 100 W



02YSY(ST)CY 1x2x1.05/2.55-100	ICS PB PA FC 1x2xAWG18/1 PVC	Black or blue
Li-02YSH(ST)CH 1x2x1.2/2.55-100	ICS PB PA FC 1x2xAWG18/7 LSFH-FR	Black or blue
Li-02YSY(ST)CY 1x2x1.3/2.55-100	ICS PB PA FC 1x2xAWG18/19 PVC	Black or blue
Li-2YY(ST)CY 1x2x1.53/3.25-100	ICS PB PA FC 1x2xAWG16/7 PVC	Black or blue
Li-02YSY(ST)CYQY 1x2x1.2/2.55-100	ICS PB PA FC 1x2xAWG18/7 SWB PVC	Black or blue
02YSY(ST)CYBY 1x2x1.05/2.55-100	ICS PB PA FC 1x2xAWG18/1 GST PVC	Black or blue

Cable type (acc. to DIN/VDE)	Product Name	Colour
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FOUNDATION FIELDBUS FF 100 W



02YSY(ST)CY 1x2x1.05/2.55-100	ICS FF FC 1x2xAWG18/1 PVC	Yellow
Li-02YSH(ST)CH 1x2x1.2/2.55-100	ICS FF FC 1x2xAWG18/7 LSHF-FR	Yellow
Li-02YSY(ST)CY 1x2x1.3/2.55-100	ICS FF FC 1x2xAWG18/19 PVC	Yellow
Li-2YY(ST)CY 1x2x1.53/3.25-100	ICS FF FC 1x2xAWG16/7 PVC	Yellow
Li-02YSY(ST)CYQY 1x2x1.2/2.55-100	ICS FF FC 1x2xAWG18/7 SWB PVC	Yellow
02YSY(ST)CYBY 1x2x1.05/2.55-100	ICS FF FC 1x2xAWG18/1 GST PVC	Yellow

CANBUS



Li-09YSC12Y 2x0.38 mm²-120	ICS CANBUS 1x2x0.38 mm² PBT	Black
Li-2YC12Y 2x2x0.22 mm²-120	ICS CANBUS 2x2x0.22 mm² PBT	Black
Li-09YSY(ST)C11Y LSZH 2x0.35 mm²-120	ICS CANBUS 1x2x0.35 mm² PUR	Black
Li-2YC11Y 2x2x0.22 mm²-120	ICS CANBUS 2x2x0.22 mm² PUR	Black

LON



2Y(St)Y 2x2x0.65	ICS LONAK® 2x2x0.65 PVC	Grey
Y(St)Y 2x2x0.8	ICS LONAK® 2x2x0.8 PVC	Grey
Li-Y(St)Y 1x2x1.3 mm²	ICS LONAK® 1x2x1.3 mm² PVC	Grey
Li-Y(St)YBY 1x2x1.3 mm²	ICS LONAK® 1x2x1.3 mm² GST PVC	Black

EIB



2Y(St)Y 1x2x0.8	ICS EIB 1x2x0.8 PVC	White
2Y(St)Y 2x2x0.8	ICS EIB 2x2x0.8 PVC	White
2Y(St)H 1x2x0.8	ICS EIB 1x2x0.8 LSHF	White
2Y(St)H 2x2x0.8	ICS EIB 2x2x0.8 LSHF	White

For every application there is an extended range of optical fibre cables available.