

MICRO CABLES

SENSOR CABLES

INDIVIDUAL DESIGNS

STANDARD DESIGNS

TECHNOLOGIES

We are developers and producers of special fiber optic technologies and armored multi-purpose fiber optic micro-cables

The technologies that we developed and introduced have been approved by scientific research institutes and have international awards

We have a long-term experience in implementation of innovative projects in fiber-optics field

THE BASIS

Our production is based on our own high technologies

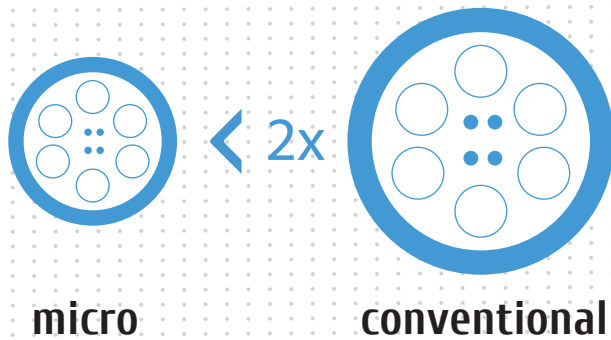
We have our own innovative and research ground

We are a reliable supplier of unique products that have the highest quality



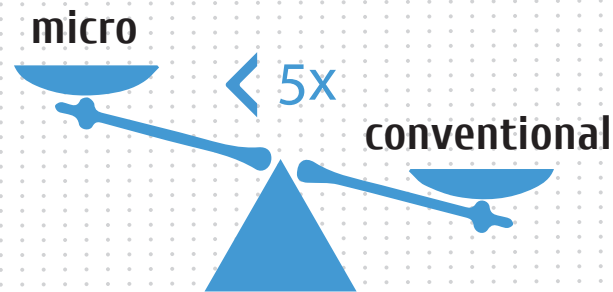
ADVANTAGES OF ARMORED FIBER OPTIC MICROCABLES ³

EXTRA THIN



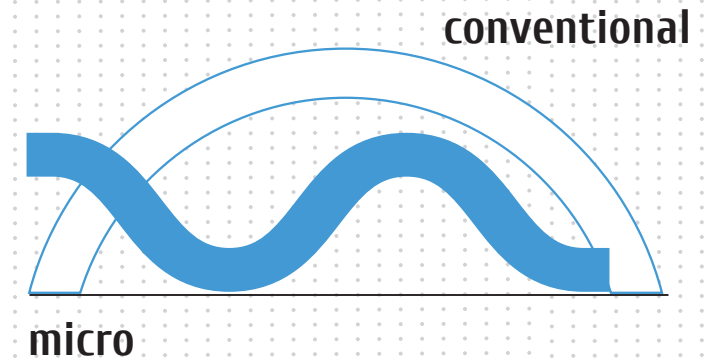
a 2-fibers armored cable is only 3,0 mm in diameter

EXTRA LIGHTWEIGHT



from 10 kg for 1 km of 2-fibers armored cable

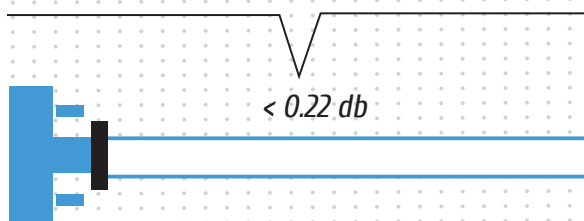
EXTRA FLEXIBLE



Minimum bend radius from 15 mm

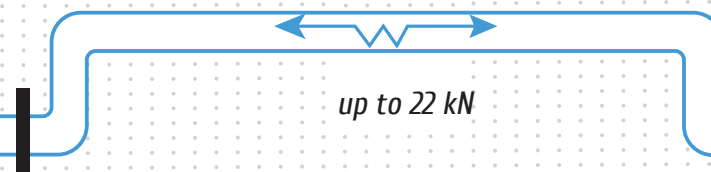
HIGH-QUALITY

Use of high-quality optical fibers guarantees low attenuation levels



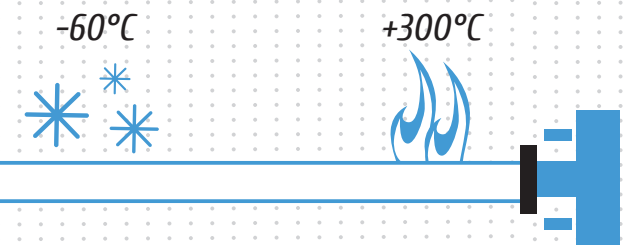
HEAVY-DUTY

High tensile strength



EXTRA RESISTANT

Wide temperature range



The main advantages of our cables compared
with the products of other manufacturers

SUPER STRONG MICROCABLE



WITHOUT INFLEXIBLE
BUFFER TUBE



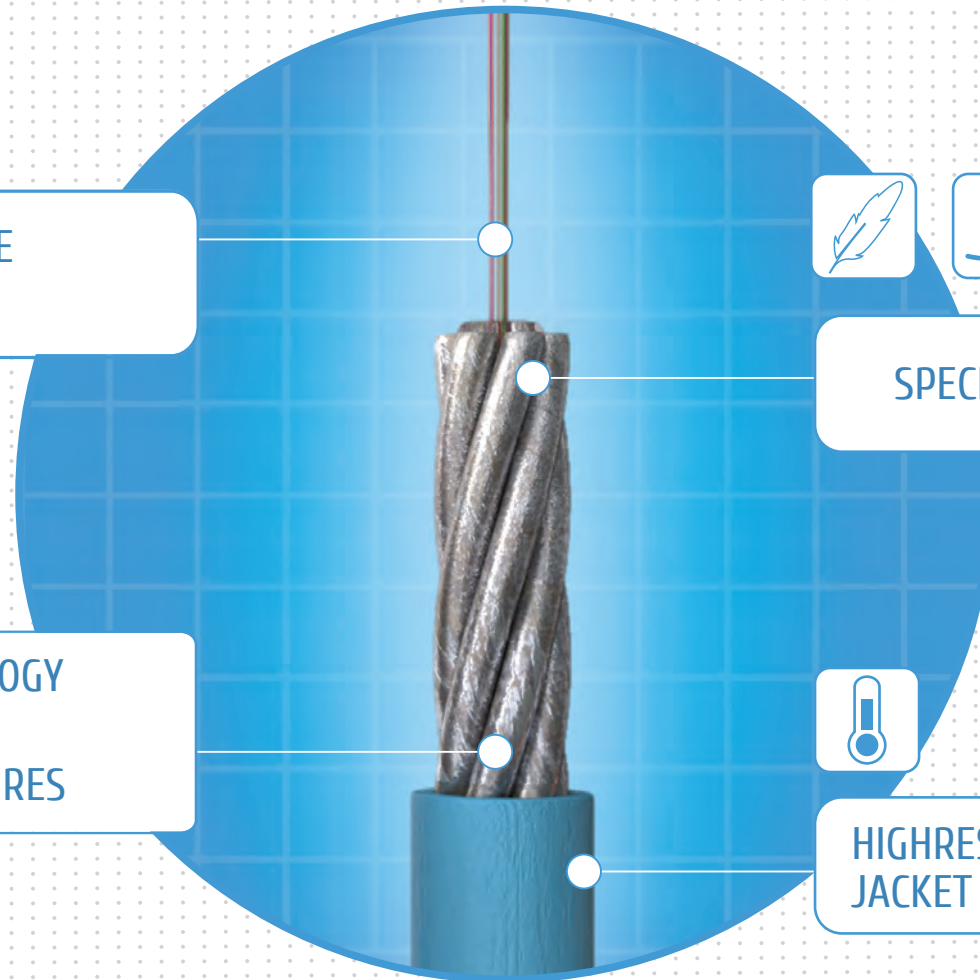
PATENTED TECHNOLOGY
OF ARMORING
WITH HIGH-DUTY WIRES



SPECIAL MICRO DESIGN

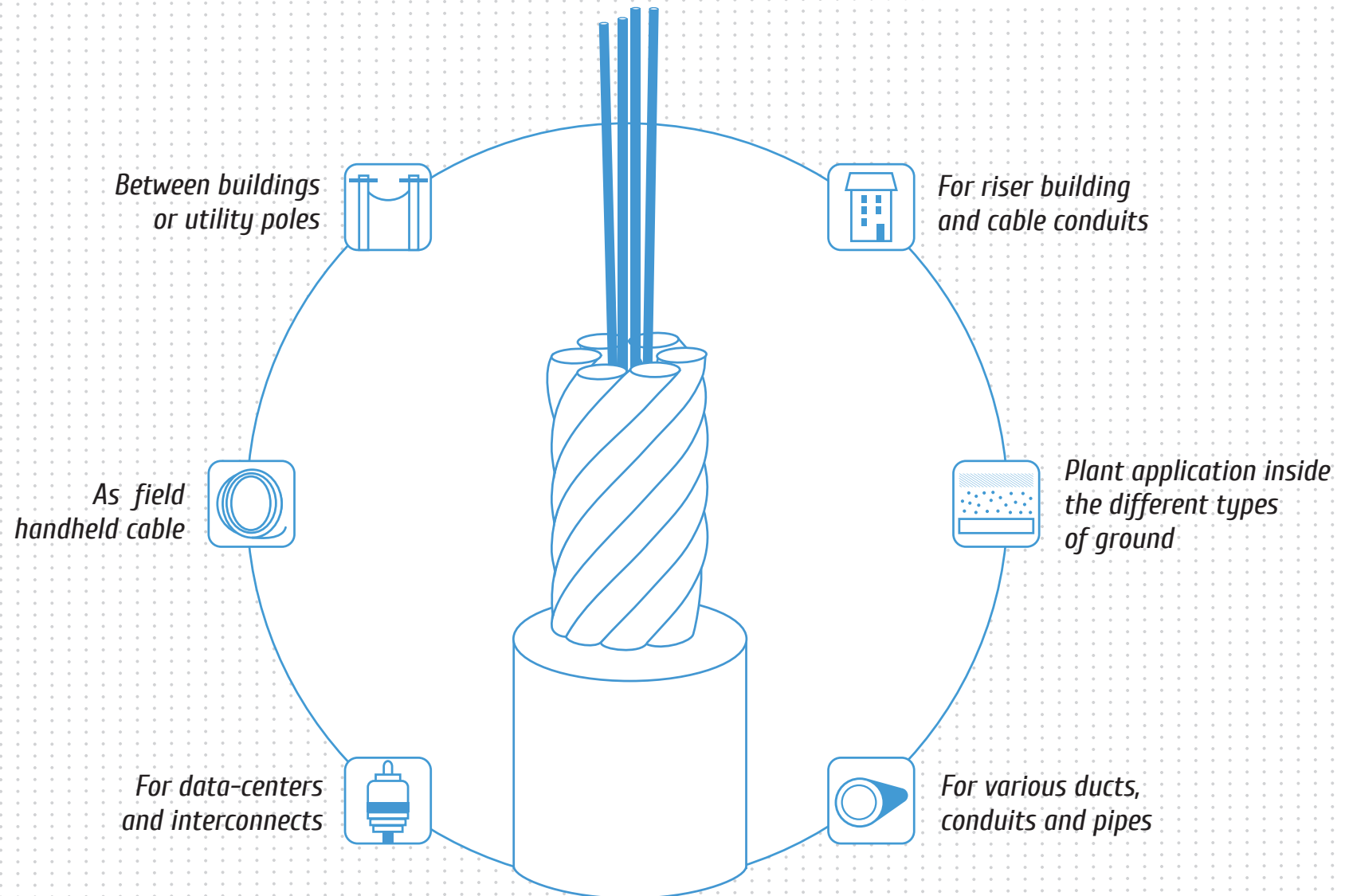


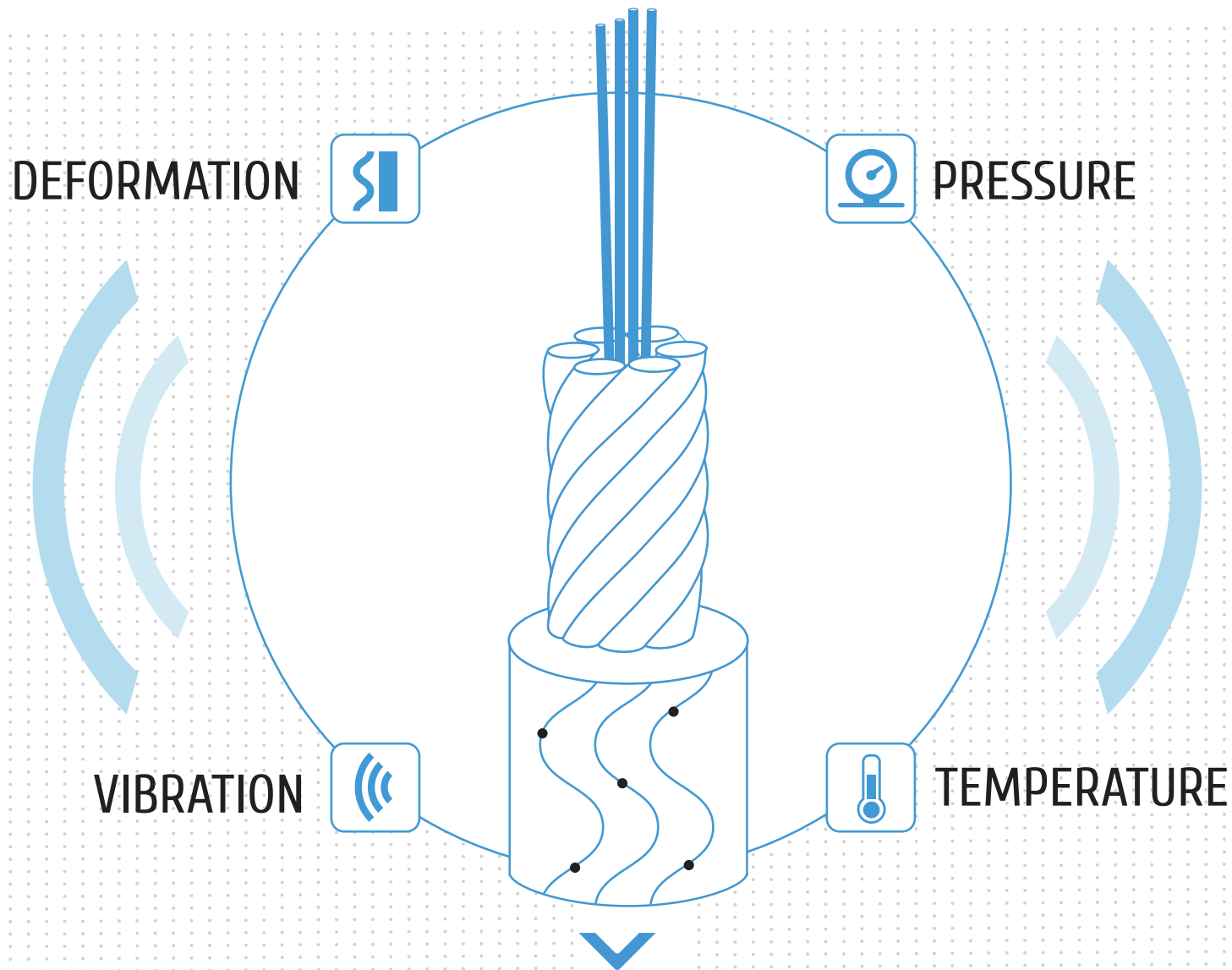
HIGHRESISTANT OUTER
JACKET FOR ANY CONDITIONS



DATA TRANSMIT APPLICATIONS

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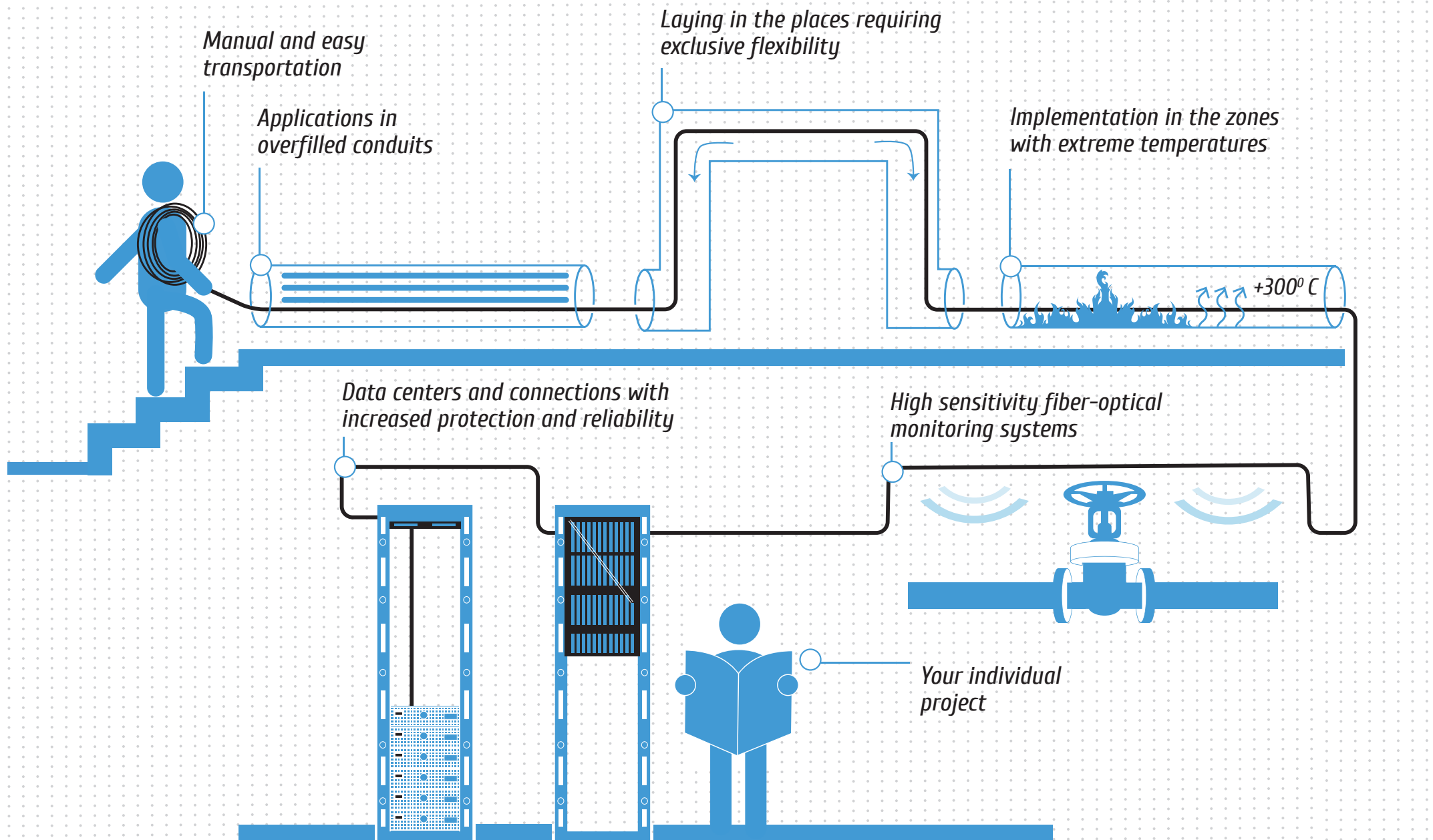




Use of microcables for fiber-optical monitoring systems

BEST APPLICATIONS FOR MICROCABLES

7



MAIN MICROCABLES MODIFICATIONS

8



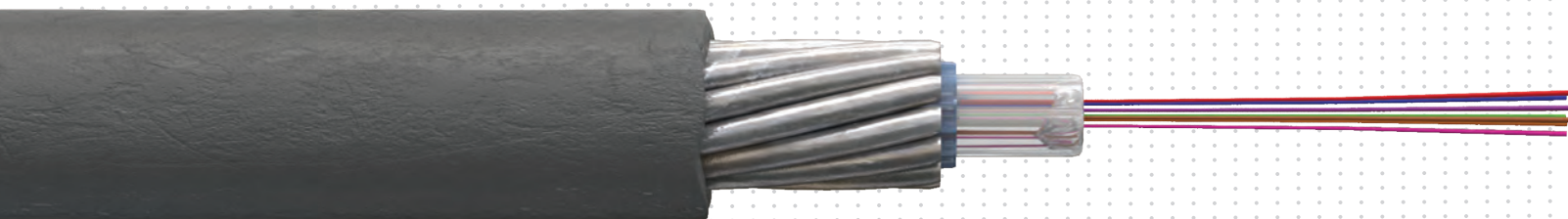
FLEX

Armor without central module



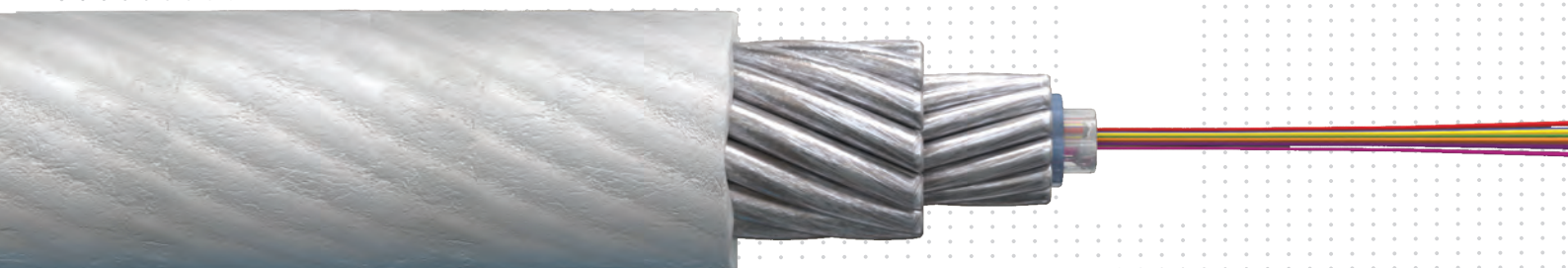
SOLID

Armor strengthened
without central module



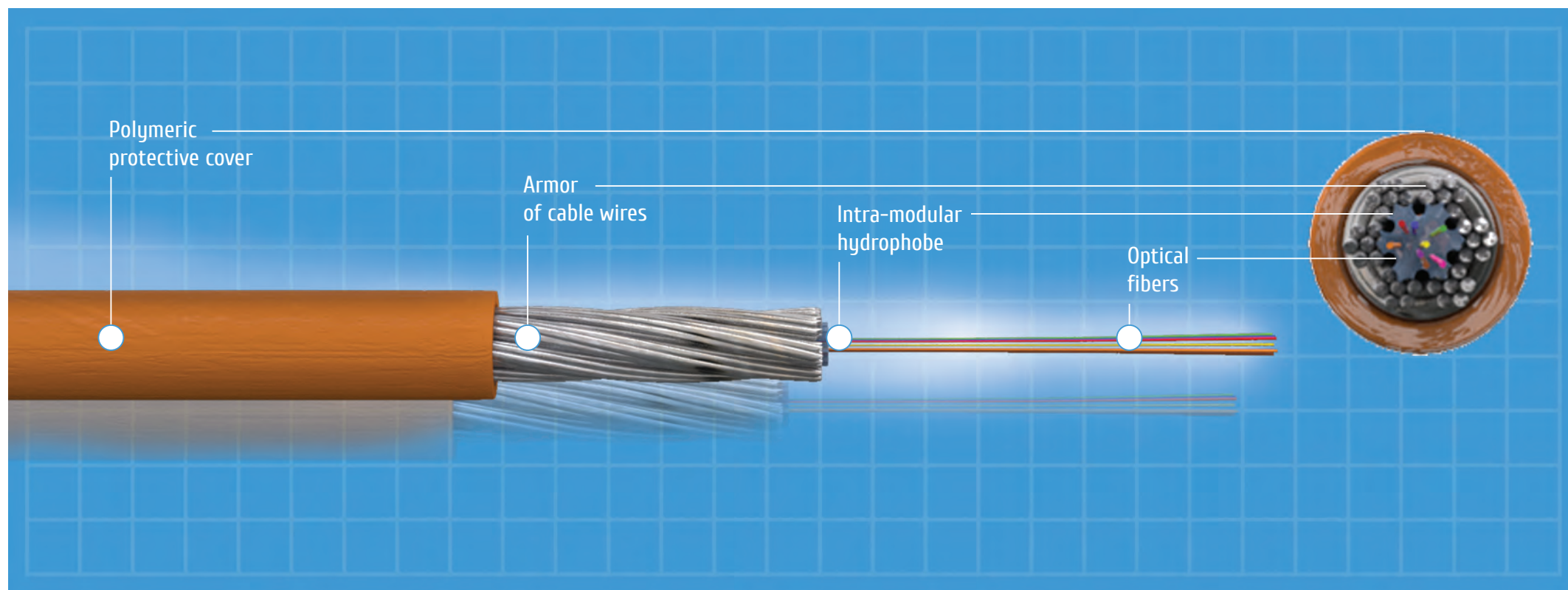
SHELL

Armor with central module



TOUGH

Double armor
and with central module



Technical specifications



Without central polymeric module



Weight from 12 kg



Tensile strength up to 2.5 kN.



Armor of cable wires 42 pc. \varnothing from 0.16 to 0.4 mm



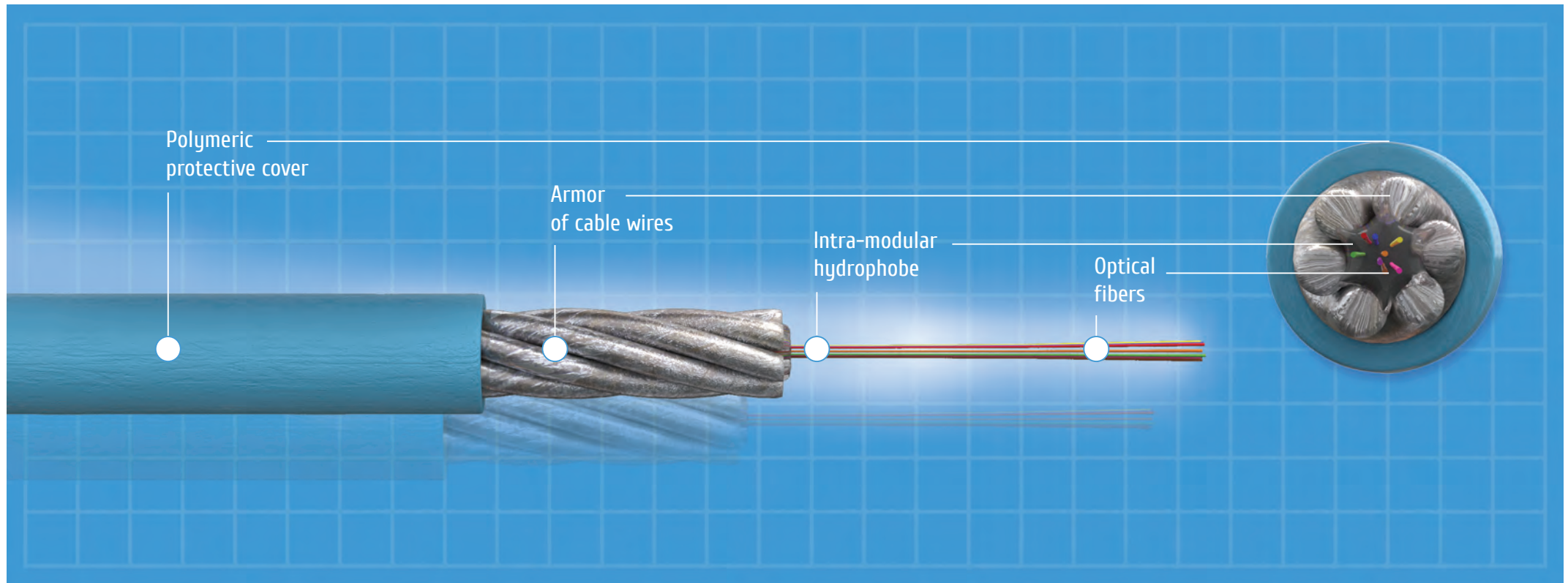
Outer diameter from 2.0 mm



Number of fibers up to 16 pcs.



Bend radius from 20 mm



Technical specifications



Without central
polymeric module



Weight
from 13 kg



Tensile strength
from 0.8 to 8.0 kN.



Armor of cable wires
6 pc. \varnothing from 0.5 to 1.3 mm



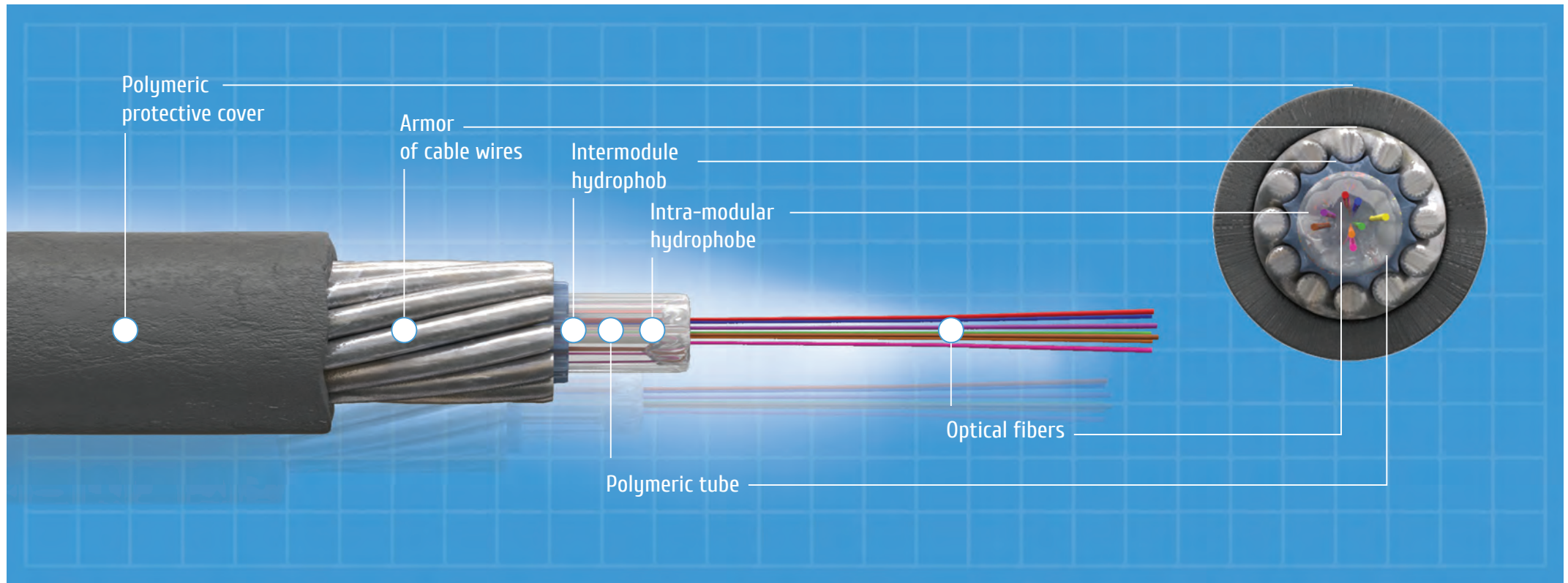
Outer diameter
from 2.0 mm



Number of fibers
up to 16 pcs.



Bend radius
from 50 mm



Technical specifications



With central flexible polymeric/steel module



Weight from 46 kg



Tensile strength up to 7.0 kN.



Armor of cable wires 12 pcs. \varnothing from 0.6 to 0.9 mm



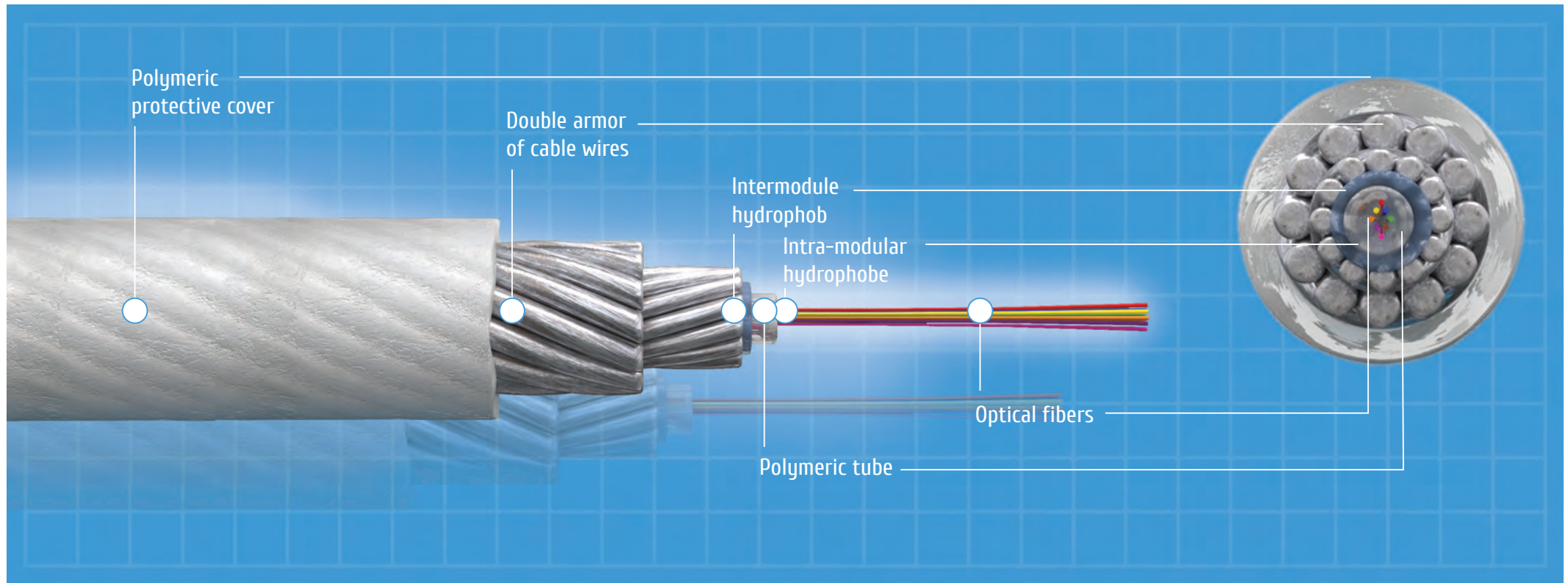
Outer diameter from 5.0 mm



Number of fibers up to 16 pcs.



Bend radius from 100 mm



Technical specifications



With central flexible polymeric/steel module



Weight from 165 kg



Tensile strength up to 17.0 kN.



Double armor of cable wires 30 pcs. \varnothing from 0.8 to 0.9 mm



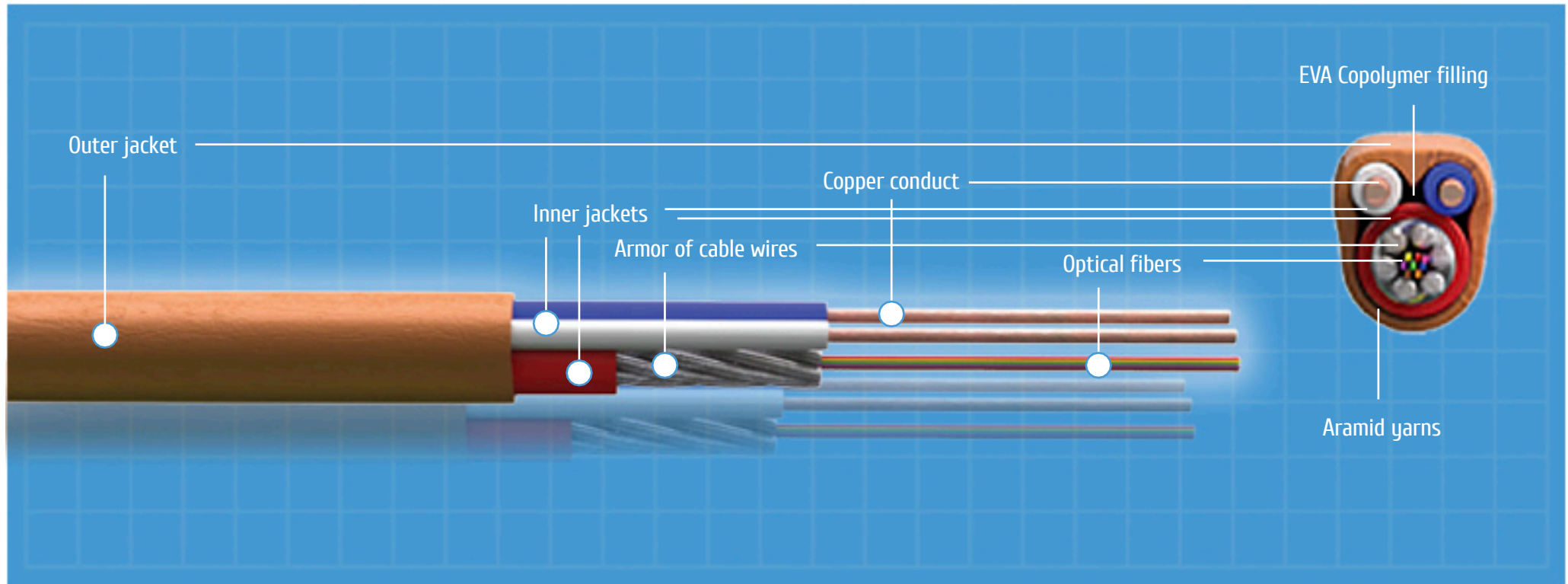
Outer diameter from 8.6 mm



Number of fibers up to 16 pcs.



Bend radius from 160 mm



Technical specifications



Armored without polymeric buffer tube



Weight from 80 kg.



Tensile strength up to 6.0 kN.



Armor of cable wires and aramid yarns



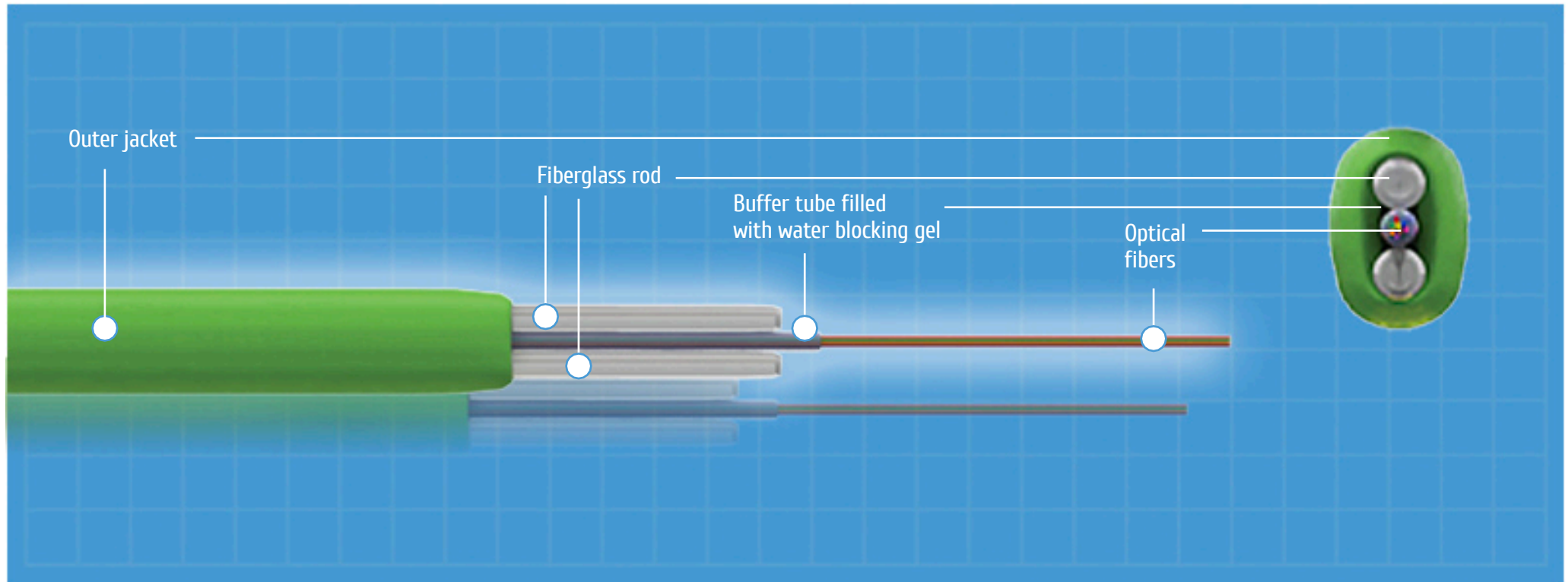
Outer diameter from 8.0 mm



Number of fibers up to 8 pcs.



Bend radius from 160 mm



Technical specifications



Polymeric buffer tube filled with water-blocking gel



Weight from 7,5 kg.



Tensile strength up to 3.5 kN.



Fiberglass rods as strength members 2 pcs. Ø from 1.0 mm



Outer diameter from 5.0 mm



Number of fibers up to 16 pcs.



Bend radius from 100 mm

TECHNICAL SPECIFICATIONS

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List of technical specifications of some common models out of more than 50.
All our cables are available with any types of fibers and polymeric jackets
(including non-flammable and non-halogen materials)

Type	Outer diameter, mm	Diameter of the armor, mm	Number and diameter of wires, pcs x mm	Jacket thickness, mm	Cable weight, kg/km	Tensile strength, kN	Module diameter, mm	Number fibers, pcs
FLEX	1,8	1,0	42 x 0,10	0,4	4,5	0,3	w/o mod.	1
FLEX	2,4	1,6	42 x 0,18	0,4	13,2	1,0	w/o mod.	1
FLEX	4,1	2,9	42 x 0,30	0,6	30,0	1,5	w/o mod.	4
FLEX	4,7	3,3	42 x 0,34	0,7	45,0	2,5	w/o mod.	8
SOLID	3,0	0,85	6 x 0,28	1,0	4,0	0,3	w/o mod.	1
SOLID	3,6	2,4	6 x 0,8	0,6	33,0	3,5	w/o mod.	4
SOLID	4,0	2,8	6 x 0,9	0,6	38,0	2,7	w/o mod.	8
SHELL	5,6	3,6	12 x 0,7	1,0	46,7	2,7	2,2	8
Type	Outer diameter, mm	Diameter of the armor, mm	Number and diameter of wires, mm	Jacket thickness, mm	Weight of cable, kg/km	Tensile strength, kN	Number and diameter of copper conductors	Number of fibers
HYBRID	12,0	3,1	6 x 1,0	1,4	110,0	3,5	2 x 2,5	8