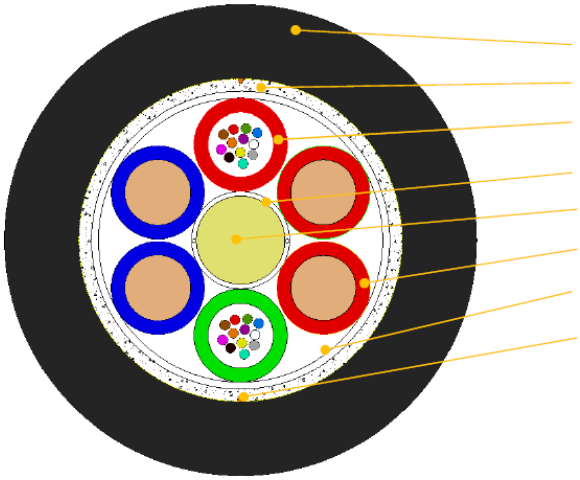
Duct multitube structure cable with copper conductors reinforced with fiberglass yarns



*schematic drawing, not to scale

APPLICATION:

For installation into existing duct or directly buried
Good resistance to traction and compression

STRUCTURE AND COMPOSITION:

FRP strength and anti-buckling element
Insulated stranded copper conductors 2,5mm2 (Ø 3.6mm)
Loose tubes with filling compound (PBT Ø 3.4mm)
Tape and dry yarns to prevent moisture into the cable
Fiberglass yarns as strain relief elements
UV stabilized PE outer sheath
Other outer sheaths materials available

CABLE DESIGNS:

Variant	Quantity [pcs]				Ø nominal (±5%)	Nominal weight (±10%)	Max allowed tension	Max static tension
	Fibres	Fibres per tube	Total elements	Active tubes	[mm]	[kg/km]	[N]	[N]
1T x 4F + 2 x 2,5mm2	4	4	6	1	14,5	175	2900	1800
1T x 12F + 2 x 2,5mm2	12	12	6	1	14,5	163	2800	1700
1T x 12F + 3 x 2,5mm2	12	12	6	1	14,5	186	2800	1700
1T x 12F + 4 x 2,5mm2	12	12	6	1	14,5	210	2800	1700
1T x 12F + 5 x 2,5mm2	12	12	6	1	14,5	233	2800	1700
-								
2T x 12F + 1 x 2,5mm2	24	12	6	2	14,5	166	2800	1700
2T x 12F + 2 x 2,5mm2	24	12	6	2	14,5	189	2800	1700
2T x 12F + 3 x 2,5mm2	24	12	6	2	14,5	212	2800	1700
2T x 12F + 4 x 2,5mm2	24	12	6	2	14,5	235	2800	1700
-								
3T x 12F + 1 x 2,5mm2	36	12	6	3	14,5	168	2800	1700
3T x 12F + 2 x 2,5mm2	36	12	6	3	14,5	191	2800	1700
3T x 12F + 3 x 2,5mm2	36	12	6	3	14,5	214	2800	1700
-								
4T x 12F + 1 x 2,5mm2	48	12	6	4	14,5	170	2800	1700
4T x 12F + 2 x 2,5mm2	48	12	6	4	14,5	194	2800	1700
-								
5T x 12F + 1 x 2,5mm2	60	12	6	5	14,5	173	2800	1700
-								
1T x 12F + 7 x 2,5mm2	12	12	8	1	16,9	329	2800	1700
1T x 12F + 6 x 2,5mm2	12	12	8	1	16,9	352	2800	1700
2T x 12F + 5 x 2,5mm2	24	12	8	2	16,9	308	2800	1700
2T x 12F + 6 x 2,5mm2	24	12	8	2	16,9	331	2800	1700
3T x 12F + 4 x 2,5mm2	36	12	8	3	16,9	287	2800	1700
3T x 12F + 5 x 2,5mm2	36	12	8	3	16,9	310	2800	1700
4T x 12F + 3 x 2,5mm2	48	12	8	4	16,9	266	2800	1700
4T x 12F + 4 x 2,5mm2	48	12	8	4	16,9	287	2800	1700
Other fibre counts available on demand. Copper wires colours to consult.								

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MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	2700 [N/10 cm]		IEC 60794-1-2-E3, Δα≤0,05 dB
Bending radius:	Static: 15 x D Dynamic: 20 x D		IEC 60794-1-2-E11, Δα≤0,05 dB
Water penetration:	3m sample, 1m head, 24h		IEC 60794-1-2-F5, no leakage
Temperature range:	Installation: Operation: Transport & Storage:	-15... +55 [°C] -40… +70 [°C] -40… +70 [°C]	IEC 60794-1-2-F1, Δα≤0,05 dB/km

The customer (as a system designer) is responsible for selection of the amount, and a cross section of copper wires suitable for his needs in such a way that the current load does not result in exceeding the maximum allowed fibre operating temperature (+ 70 °C) or permissible operating temperature of insulated conductors.

TECHNICAL COOPER WIRE CHARACTERISTICS

Max DC resistance	8,06 Ω/km@20°C
Conductor material	Bare copper
Conductor cross section	2,5mm^2
Insulated conductor dia.	3,6mm
Insulation material	PVC

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