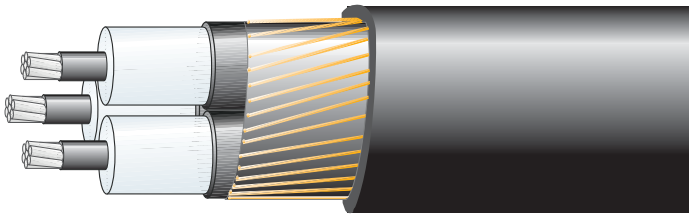
Draka

Energy & Infrastructure | Europe

AXLJ-RMF-KOMBI 14/24 kV



Application fields
3-core cable designed for installation suspended on poles. The cable can also be ploughed down in the ground or be used for laying in water. AXLJ-RMF-KOMBI has normal span width 70 meters and maximal span width 90 meters.

Standard
SS 424 14 16
CENELEC HD 620 Part 6 Section M

Fire propagation class
F1 acc. to SS 424 14 75

Temperature range
In continuous operation
max. conductor temp 90 °C.
Lowest cable temperature under installation: -20 °C and below 0 °C special precaution shall be taken.

Material declaration
AXLJ-RMF-KOMBI

Impulse voltage
125 kV

Bending radius
At fixed mounting: 8 x D
At pulling-in: 12 x D
At ploughing-down: 8 x D

Design

Conductor:	Stranded, round and compacted aluminium acc. to IEC 60228 class 2, armoured and longitudinal water sealed
Conductor screen:	Extruded
Insulation:	XLPE, min. thickness= 4,85 mm
Insulation screen:	Extruded bonded
Taping:	Conductive tape
Concentric conductor:	Annealed copper wires
Sheath:	LD PE, black
Marking e.g.:	AXLJ-RMF-KOMBI 14/24 kV 3x25/16 LT DRAKA SE "Date", metre marked

Number of cores x cross-section of conductor mm²	Diameter over insulation mm	Overall diameter (approx.) mm	Weight (approx.) kg/100 m	Standard delivery length m	Standard drum size	E-nr
3x25/16	18,2	49,0	147,0	500	K20	1055031502
3x50/16	20,4	53,9	184,0	500	K20	1055031702

Electrical data

Number of cores x cross-section of diameter mm²	Conductor resistance Ω/km	Screen resistance Ω/km	Inductance mH/km	Reactance Ω/km	Capacitance ↔F/km	Charging current A/km
3x25/16	1,2	1,2	0,43	0,14	0,14	1,8
3x50/16	0,641	1,2	0,39	0,12	0,16	2,1

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Data for preparation and installation, 3x25/16

Span length m	Sag at +60 °C m	Template nr.	Sag at -40 °C m	Template nr.	Tensile force at 0 °C and ice load 2 kg/m, kN
50	1,62	2600	0,62	1000	7,6
60	2,12	2330	0,98	1070	8,7
70	2,63	2150	1,39	1130	9,6
80	3,21	2020	1,87	1180	10,5
90	3,9	1920	2,49	1230	11,2

3x25/16 cont.

Cable temp. °C	Tensile force kN	Sag at 50 m span width m	Sag at 60 m span width m	Sag at 70 m span width m	Sag at 80 m span width m
20	4,8	0,98	1,42	1,93	2,52
10	5,0	0,94	1,35	1,84	2,40
0	5,3	0,89	1,29	1,75	2,29
-10	5,5	0,85	1,22	1,66	2,17
-15	5,7	0,82	1,19	1,61	2,11

Data for preparation and installation, 3x50/16

Span length m	Sag at +60 °C m	Template nr.	Sag at -40 °C m	Template nr.	Tensile force at 0 °C and ice load 2 kg/m, kN
50	1,49	2400	0,44	720	10,0
60	1,92	2100	0,70	770	11,5
70	2,36	1920	1,00	810	13,1
80	2,84	1790	1,36	860	14,1
90	3,41	1680	1,84	900	15,7

3x50/16 cont.

Cable temp. °C	Tensile force kN	Sag at 50 m span width m	Sag at 60 m span width m	Sag at 70 m span width m	Sag at 80 m span width m
20	7,1	0,82	1,18	1,60	2,09
10	7,5	0,77	1,10	1,50	1,96
0	8,1	0,71	1,03	1,40	1,83
-10	8,7	0,66	0,95	1,30	1,69
-15	9,1	0,63	0,91	1,24	1,63

Nominal values unless otherwise specified.

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