Inventta Energy
MANUFACTURING

CONDUCTOR DATA SHEET

AERIAL BUNDLED CABLES (ABC)

METRIC UNITS
SANS 1418 · IEC 60502-1 · BS 7870-5

Size	Phase conductors				Neutral / messenger				Other	Approx.	Approx.	Max. DC resistance at 20 °C		Neutral
	Cores	Area	Stranding	Insul.	Area	Stranding	Material	Insul.	cores	overall Ø	weight	Phase	Neutral	break. load
	no.	mm²	no./mm	mm	mm²	no./mm		mm	no.×mm²	mm	kg/km	Ω/km	Ω/km	kN
2×10	2	10.6	7/1.39	1.20	—	—	—	—	—	12.9	98	2.7146	—	—
2×16	2	16.8	7/1.75	1.20	—	—	—	—	—	15.0	140	1.7119	—	—
2×25	2	27.1	7/2.22	1.40	—	—	—	—	—	17.5	219	1.0638	—	—
4×16	4	16.8	7/1.75	1.20	—	—	—	—	—	18.1	281	1.7119	—	—
1×25+1×54	1	27.1	7/2.22	1.40	54.5	7/3.15	Al alloy	1.60	—	24.2	314	1.0638	0.6141	15.5
3×25+16	3	24.2	7/2.10	1.85	15.9	7/1.70	Al	1.25	—	24.6	407	1.1888	1.8143	2.4
2×50	2	49.5	7/3.00	2.00	—	—	—	—	—	25.2	408	0.5826	—	—
4×25	4	27.1	7/2.22	1.40	—	—	—	—	—	21.1	437	1.0638	—	—
3×25+54.6	3	27.1	7/2.22	1.40	54.5	7/3.15	Al alloy	1.60	—	30.5	533	1.0638	0.6141	15.5
4×35	4	36.6	7/2.58	1.60	—	—	—	—	—	24.6	587	0.7877	—	—
3×25+54+1×25	3	27.1	7/2.22	1.40	54.5	7/3.15	Al alloy	1.60	1×27.1	25.6	642	1.0638	0.6141	15.5
3×35+54.6	3	36.6	7/2.58	1.60	54.5	7/3.15	Al alloy	1.60	—	30.2	645	0.7877	0.6141	15.5
3×50+25	3	49.5	7/3.00	2.00	24.2	7/2.10	Al	1.85	—	30.4	725	0.5826	1.1888	3.6
4×50	4	51.1	7/3.05	1.60	—	—	—	—	—	27.5	775	0.5637	—	—
3×50+54.6	3	51.1	7/3.05	1.60	54.5	7/3.15	Al alloy	1.60	—	30.5	786	0.5637	0.6141	15.5
4×50+2×16	4	51.1	7/3.05	1.60	—	—	—	—	2×16.8	34.2	915	0.5637	—	—
3×70+54.6	3	74.9	19/2.24	1.80	54.5	7/3.15	Al alloy	1.60	—	32.6	1,039	0.3850	0.6141	15.5
3×70+70	3	74.9	19/2.24	1.80	70.1	7/3.57	Al alloy	1.60	—	35.7	1,088	0.3850	0.4780	19.9
4×70	4	74.9	19/2.24	1.80	—	—	—	—	—	35.7	1,113	0.3850	—	—
3×70+54+1×25	3	73.5	19/2.22	1.80	54.5	7/3.15	Al alloy	1.60	1×27.1	33.1	1,136	0.3920	0.6141	15.5
3×95+50	3	93.3	19/2.50	2.30	49.5	7/3.00	Al	2.00	—	39.8	1,289	0.3091	0.5826	7.3
3×95+70	3	99.3	19/2.58	1.80	70.1	7/3.57	Al alloy	1.60	—	39.8	1,319	0.2902	0.4780	19.9
4×95	4	99.3	19/2.58	1.80	—	—	—	—	—	35.9	1,420	0.2902	—	—
3×120+70	3	122.1	19/2.86	1.80	70.1	7/3.57	Al alloy	1.60	—	43.2	1,530	0.2362	0.4780	19.9

Note: all data in this data sheet is nominal and for information purposes only, calculated from the standard construction (Al 1350 61 % IACS, Al alloy 52.5 % IACS, galvanised steel). Final values are given in the approved Technical Data Sheet (TDS) for each order. Other sizes and customer specifications on request. Drum lengths to customer requirements. Prices on request. Cables are manufactured according to the applicable customer specifications and relevant technical standards. Compliance with specific EN standards is subject to verification and confirmation through the required testing.