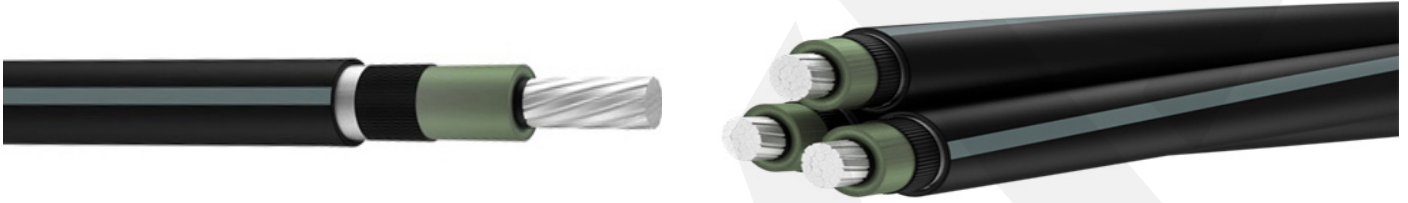


MEDIUM VOLTAGE 18/30(36kV) AERIAL BUNDLED CABLES (ABC) Acc. to NF C 33-226



TECHNICAL DATA

- Max Operating Temperature: 90°C
- Max. short Circuit Temperature: 250°C (max. 5 sec.)
- Rated voltage: 18/30kV
- Cable Code: AER
- Minimum Bending Radius:
Single Core: 13 x overall diameter
During Installation: 26 x overall diameter

APPLICATION

These cables are suitable for MV power applications, particularly for connections in transformer stations and power stations, between aerial lines and transformer stations, and for automotive electric power train.

CONSTRUCTION

Conductor: Class 2 Aluminium stranded wire

Conductor Screen: Semi-conductive XLPE

(Cross-linked Polyethylene) bonded to conductor

Insulation: XLPE (Cross-linked polyethylene)

Insulation Screen: Grooved peel-able semi-conducting XLPE (Cross-linked Polyethylene)

Screen: Al/PET (Aluminium foil tape)

Outer Sheath: PE (Polyethylene)

Sheath Colour: Colours could be according to the

International Standards (Red for underground connections
Grey for aerial, above/underground or technical
connections or black striped.)

MAXIMUM CURRENT RATING

No. Of CORES	NOMINAL CROSS SECTION AREA	D.C. RESISTANCE at 20°C	C.A. RESISTANCE at 50 Hz 90°C	INDUCTANCE	CAPACITY	APPROX. WEIGHT
	mm ²	Ω/km	Ω/km	mH/km	μF / km	kg/km
1	50	0,641	0,82	0,46	0,136	930
1	95	0,32	0,41	0,401	0,184	1104
1	150	0,206	0,265	0,372	0,223	1213
1	240	0,125	0,16	0,333	0,284	1569
1	300	0,1	0,13	0,321	0,314	3166
1	400	0,078	0,102	0,311	0,346	3564
3	50	0,641	0,82	0,46	0,136	2332
3	95	0,32	0,41	0,401	0,184	2860
3	150	0,206	0,265	0,372	0,223	3191
3	240	0,125	0,16	0,333	0,284	4259

MAXIMUM CURRENT RATING

CROSS SECTION mm ²	DIRETLY BURIED		IN AIR	
	WINTER	SUMMER	WINTER	SUMMER
50	200	165	205	190
95	295	240	310	285
150	375	305	405	370
240	500	405	550	500

OPERATING CONDITIONS

In summer

- Ground temperature = 20°C
- Air ambient temperature = 30°C
- Ground thermal resistivity = 1.2 Km/W
- * The current ratings are calculated for a 3 phase system

In winter

- Ground temperature = 10 °C
- Air ambient temperature = 20°C
- Ground thermal resistivity = 0.85 Km/W
- Laying depth = 0.8 m
- * The current ratings are calculated for a 3 phase system