



TECHNICAL DATA

Cross-linked single core cable

Temperature range	flexible -25°C to +90°C fixed -40°C to +90°C
Permissible operating temperature of the conductor	+120°C
Nominal voltage	AC U ₀ /U 1000/1000 V DC U ₀ /U 1500/1500 V
Test voltage	6500 V
Minimum bending radius	flexible 6x Outer-Ø fixed 4x Outer-Ø

■ CABLE STRUCTURE

- Copper wire tinned, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: cross-linked compound
- x = without protective conductor
- Outer sheath: cross-linked compound
- Sheath colour: black

■ PROPERTIES

- resistant to: UV radiation, ozone, weathering effects, water
- for outdoor use

- direct burial
- halogen-free

■ TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- water-resistant acc. to DIN VDE 0285-525-2-21 / DIN EN 50525-2-21 Appendix E

■ APPLICATION

HELUPOWER® HIGH AMP-X is used for power cabling in battery energy storage systems (BESS). Due to the increased DC operating voltage, energy losses over long transmission distances can be significantly reduced. The cable is suitable for both open installation on cable trays and direct burial (reduced installation effort); however, it is not suitable for permanent installation in water. The maximum permissible DC voltage of the system in which the cable is used must not exceed 1.8 kV.

■ NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer-Ø min - max mm	Cu factor per km	Weight kg/km, approx.
11030011	1 x 16	6	7.7 - 8.5	153.0	191.0
11030012	1 x 25	4	10.0 - 10.8	240.0	297.0
11030013	1 x 35	2	11.5 - 12.3	336.0	403.0
11030014	1 x 50	1	13.2 - 14.0	480.0	563.0
11030015	1 x 70	2/0	15.6 - 16.6	672.0	766.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer-Ø min - max mm	Cu factor per km	Weight kg/km, approx.
11030016	1 x 95	3/0	17.4 - 18.4	912.0	1014.0
11030017	1 x 120	4/0	19.4 - 20.4	1152.0	1257.0
11030018	1 x 150	300 kcmil	20.7 - 21.7	1440.0	1562.0
11030019	1 x 185	350 kcmil	24.0 - 25.0	1776.0	1928.0
11030020	1 x 240	450 kcmil	26.6 - 27.8	2304.0	2493.0