

Table: Technical Data for ABC Low Voltage Cables LV ABC 4 x 120 mm²

Description	Unit	Required	Offered
Manufacturer			
Rated Voltage	kV	0.6/1	
<u>Phases and Neutral</u>			
Material		Aluminum	
Cross section	mm ²	120	
Class		2	
Cross section shape		circular compacted	
Number of wires		≥15	
Diameter of wires	mm	To be Specified	
Diameter of conductor	mm	12.5	
Maximum conductor DC resistance at 20 °C	ohm/km	0.253	
Insulation Material		Black XLPE	
Insulation thickness	Mm	1.8	
Breaking load of single core, min.	KN	18.8	
Breaking load of complete cable, min.	KN	67.2	
<u>Technical Characteristics</u>			
Outer diameter of bundle (D)	mm	39.8	
Weight of conductor	kg/km	1650	
Minimum bending radius	mm	15 D	
Maximum lay of cores			
Current rating /ambient 40 °C	A	290	
Maximum conductor temperature/normal operation	°C	90	
Maximum conductor temperature/short circuit	°C	250	
Rated short circuit /phase	kA	8.5	
Length of conductor drum	m	To be specified	
Gross weight of loaded drum	kg	To be specified	
Standard		IEC 60502 NFA2X (VDE 0276 - 626 4F-1), AsXS (n) (PL WT92/K396), 1-AES (CSN 34761-4F) AS/NZS 3560.1	

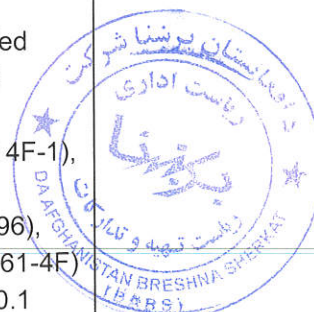
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Table: Technical Data for ABC Low Voltage Cables LV ABC 4 x 95 mm²

Description	Unit	Required	Offered
Manufacturer			
Rated Voltage	kV	0.6/1	
<u>Phases and Neutral</u>			
Material		Aluminum	
Cross section	mm ²	95	
Class		2	
Cross section shape		circular	
		compacted	
Number of wires		≥15	
Diameter of wires	mm	To be specified	
Diameter of conductor	mm	11.4	
Maximum conductor DC resistance at 20 °C	ohm/km	0.320	
Insulation Material		Black XLPE	
Insulation thickness	Mm	1.7	
Breaking load of single core, min.	KN	15	
Breaking load of complete cable, min.	KN	53.2	
<u>Technical Characteristics</u>			
Outer diameter of bundle (D)	mm	35.3	
Weight of conductor	kg/km	1350	
Minimum bending radius	mm	15 D	
Maximum lay of cores			
Current rating /ambient 40 °C	A	250	
Maximum conductor temperature/normal operation	°C	90	
Maximum conductor temperature/short circuit	°C	250	
Rated short circuit /phase	kA	6.8	
Length of conductor drum	m	To be specified	
Gross weight of loaded drum	kg	To be specified	
Standard		IEC 60502 NFA2X (VDE 0276 - 626 4F-1), AsXS (n) (PL WT92/K396), 1-AES (CSN 34761-4F) AS/NZS 3560.1	



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Table: Technical Data for ABC Low Voltage Cables LV ABC 4 x 70 mm²

Description	Unit	Required	Offered
Manufacturer			
Rated Voltage	kV	0.6/1	
<u>Phases and Neutral</u>			
Material		Aluminum	
Cross section	mm ²	70	
Class		2	
Cross section shape		Circular compacted	
Number of wires		≥12	
Diameter of wires	mm	To be specified	
Diameter of conductor	mm	9.7	
Maximum conductor DC resistance at 20 °C	ohm/km	0.443	
Insulation Material		Black XLPE	
Insulation thickness	Mm	1.5	
Breaking load of single core, min.	KN	11	
Breaking load of complete cable, min.	KN	39.2	
<u>Technical Characteristics</u>			
Outer diameter of bundle (D)	mm	31.3	
Weight of conductor	kg/km	960	
Minimum bending radius	mm	12 D	
Maximum lay of cores			
Current rating /ambient 40 °C	A	205	
Maximum conductor temperature/normal operation	°C	90	
Maximum conductor temperature/short circuit	°C	250	
Rated short circuit /phase	kA	5.0	
Length of conductor drum	m	To be specified	
Gross weight of loaded drum	kg	To be specified	
Standard		IEC 60502 NFA2X (VDE 0276 - 626 4F-1), AsXS (n) (PL WT92/K396), 1-AES (CSN 34761-4F) AS/NZS 3560.1	



5/10/1395

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Table: Technical Data for ABC Low Voltage Cables LV ABC 4 x 50 mm²

Description	Unit	Required	Offered
Manufacturer			
Rated Voltage	kV	0.6/1	
<u>Phases and Neutral</u>			
Material		Aluminum	
Cross section	mm ²	50	
Class		2	
Cross section shape		circular compacted	
Number of wires		≥6	
Diameter of wires	mm	To be specified	
Diameter of conductor	mm	8.1	
Maximum conductor DC resistance at 20 °C	ohm/km	0.641	
Insulation Material		Black XLPE	
Insulation thickness	Mm	1.5	
Breaking load of single core, min.	KN	8.4	
Breaking load of complete cable, min.	KN	28	
<u>Technical Characteristics</u>			
Outer diameter of bundle (D)	mm	27.3	
Weight of conductor	kg/km	715	
Minimum bending radius	mm	12 D	
Maximum lay of cores			
Current rating /ambient 40 °C	A	165	
Maximum conductor temperature/normal operation	°C	90	
Maximum conductor temperature/short circuit	°C	250	
Rated short circuit /phase	kA	3.6	
Length of conductor drum	m	To be specified	
Gross weight of loaded drum	kg	To be specified	
Standard		IEC 60502 NFA2X (VDE 0276 - 626 4F-1), AsXS (n) (PL WT92/K396), 1-AES (CSN 34761-4F) AS/NZS 3560.1	

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52: 2, 1, 6

Table: Technical Data for ABC Low Voltage Cables LV ABC 4 x 35 mm²

Description	Unit	Required	Offered
Manufacturer			
Rated Voltage	kV	0.6/1	
<u>Phases and Neutral</u>			
Material		Aluminum	
Cross section	mm ²	35	
Class		2	
Cross section shape		circular compacted	
Number of wires		≥6	
Diameter of wires	mm	To be specified	
Diameter of conductor	mm	6.9	
Maximum conductor DC resistance at 20 °C	ohm/km	0.868	
Insulation Material		Black XLPE	
Insulation thickness	Mm	1.3	
Breaking load of single core, min.	KN	5.5	
Breaking load of complete cable, min.	KN	19.6	
<u>Technical Characteristics</u>			
Outer diameter of bundle (D)	mm	23.2	
Weight of conductor	kg/km	510	
Minimum bending radius	mm	12 D	
Maximum lay of cores			
Current rating /ambient 40 °C	A	132	
Maximum conductor temperature/normal operation	°C	90	
Maximum conductor temperature/short circuit	°C	250	
Rated short circuit /phase	kA	2.5	
Length of conductor drum	m	To be specified	
Gross weight of loaded drum	kg	To be specified	
Standard		IEC 60502 NFA2X (VDE 0276 - 626 4F-1), AsXS (n) (PL WT92/K396), 1-AES (CSN 34761-4F) AS/NZS 3560.1	



معمولاً ۱۰، ۱۵، ۲۰

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Table: LV Underground Cable 0.6/1 kV, NYY 1 x 300 RM

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Cable type (one – core)		NYY	
Conductor material		Copper	
Conductor shape		Circular stranded	
Nominal cross-sectional area of conductor	mm ²	300	
Insulation material of conductor	mm	PVC	
Insulation thickness		2.2	
Outer sheath material		PVC	
Thickness of outer sheath	mm	1.8	
Overall diameter of cable(D)	mm	30	
Weight of cable	kg/km	3219	
Minimum bending radius	mm	15 D	
Nominal voltage	kV	0.6/1.0	
Max. Permissible operating voltage	kV	1.2	
Service voltage	kV	0.4/0.230	
Frequency	Hz	50	
Effective a.c. resistance at 70° C	Ω/km	0.075	
Max. admissible short circuit current (1s)	kA	34.5	
Current carrying capacity (in air)	A	557	
Inductance per conductor	mH/km	To be specified	
Standards		IEC 60502 DIN VDE 0271 VDE 0295 (IEC60228) VDE0293-	



معمولاً: 55

13-10-1405

Table: LV Underground Cable 0.6/1 kV, NYY 4 x 185 Sm

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Cable type (four – core)		NYY	
Conductor material		Copper	
Conductor shape		Sector Stranded	
Nominal cross-sectional area of conductor	mm ²	185	
Insulation material of conductor		PVC	
Insulation thickness	mm	2.0	
Outer sheath material		PVC	
Thickness of outer sheath	mm	2.8	
Overall diameter of cable (D)	mm	54	
Weight of cable	kg/km	8596	
Minimum bending radius	mm	15 D	
Nominal voltage	kV	0.6/1.0	
Max. Permissible operating voltage	kV	1.2	
Service voltage	kV	0.4/0.230	
Frequency	Hz	50	
Effective d.c. resistance at 20° C	Ω/km	0.0991	
Max. admissible short circuit current (1s)	kA	21.3	
Current carrying capacity (in ground)	A	396	
Inductance per conductor	mH/km	To be specified	
Standards		IEC 60502 DIN VDE 0271 VDE 0295 (IEC60228) VDE0293	

13.10.1445



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Table: LV Underground Cable 0.6/1 kV, NYY 1 x 150 RM

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Cable type (one – core)		NYY	
Conductor material		Copper	
Conductor shape		Circular stranded	
Nominal cross-sectional area of conductor	mm ²	150	
Insulation material of conductor	mm	PVC	
Insulation thickness		2.2	
Outer sheath material		PVC	
Thickness of outer sheath	mm	1.8	
Overall diameter of cable (D)	mm	22.5	
Weight of cable	kg/km	1620	
Minimum bending radius	mm	15 D	
Nominal voltage	kV	0.6/1.0	
Max. Permissible operating voltage	kV	1.2	
Service voltage	kV	0.4/0.230	
Frequency	Hz	50	
Effective a.c. resistance at 70° C	Ω/km	0.124	
Max. admissible short circuit current (1s)	kA	17.25	
Current carrying capacity (in air)	A	352	
Inductance per conductor	mH/km	To be specified	
Standards		IEC 60502 DIN VDE 0271 VDE 0295 (IEC60228) VDE0293	



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Table: LV Underground Cable 0.6/1 kV, NYY 4 x 120 SM

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Cable type (four – core)		NYY	
Conductor material		Copper	
Conductor shape		Sector Stranded	
Nominal cross-sectional area of conductor	mm ²	120	
Insulation material of conductor		PVC	
Insulation thickness	mm	1.6	
Outer sheath material		PVC	
Thickness of outer sheath	mm	2.4	
Overall diameter of cable (D)	mm	43	
Weight of cable	kg/km	5676	
Minimum bending radius	mm	15 D	
Nominal voltage	kV	0.6/1.0	
Max. Permissible operating voltage	kV	1.2	
Service voltage	kV	0.4/0.230	
Frequency	Hz	50	
Effective a.c. resistance at 70° C	Ω/km	0.187	
Max. admissible short circuit current (1s)	kA	13.8	
Current carrying capacity (in ground)	A	285	
Inductance per conductor	mH/km	To be specified	
Standards		IEC 60502 DIN VDE 0271 VDE 0295 (IEC60228) VDE0293	

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58 : 0,2/0,6

Table: LV Underground Cable 0.6/1 kV, NYY 4 x 95 SM

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Cable type (four – core)		NYY	
Conductor material		Copper	
Conductor shape		Sector Stranded	
Nominal cross-sectional area of conductor	mm ²	95	
Insulation material of conductor		PVC	
Insulation thickness	mm	1.6	
Outer sheath material		PVC	
Thickness of outer sheath	mm	2.3	
Overall diameter of cable(D)	mm	41	
Weight of cable	kg/km	4281	
Weight of copper	kg/km	3643	
Minimum bending radius	mm	15 D	
Nominal voltage	kV	0.6/1.0	
Max. Permissible operating voltage	kV	1.2	
Service voltage	kV	0.4/0.230	
Frequency	Hz	50	
Effective a.c. resistance at 70° C	Ω/km	0.233	
Max. admissible short circuit current (1s)	kA	10.9	
Current carrying capacity (in ground)	A	245	
Inductance per conductor	mH/km	To be specified	
Standards		IEC 60502 DIN VDE 0271 VDE 0295 (IEC60228) VDE0293	

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59:5

Table: LV Underground Cable 0.6/1 kV, NYY 4 x 70SM

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Cable type (four – core)		NYY	
Conductor material		Copper	
Conductor shape		Sector Stranded	
Nominal cross-sectional area of conductor	mm ²	70	
Insulation material of conductor		PVC	
Insulation thickness	mm	1.4	
Outer sheath material		PVC	
Thickness of outer sheath	mm	2.1	
Overall diameter of cable(D)	mm	36	
Weight of cable	kg/km	3375	
Weight of copper	kg/km	3243	
Minimum bending radius	mm	15 D	
Nominal voltage	kV	0.6/1.0	
Max. Permissible operating voltage	kV	1.2	
Service voltage	kV	0.4/0.230	
Frequency	Hz	50	
Effective d.c. resistance at 20° C	Ω/km	0.268	
Max. admissible short circuit current (1s)	kA	8.05	
Current carrying capacity (in ground)	A	200	
Inductance per conductor	mH/km	To be specified	
Standards		IEC 60502 DIN VDE 0271 VDE 0295 (IEC60228) VDE0293	

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60:10:60

Table: LV Underground Cable 0.6/1 kV, NYY 4 x 50SM

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Cable type (four – core)		NYY	
Conductor material		Copper	
Conductor shape		Sector Stranded	
Nominal cross-sectional area of conductor	mm ²	50	
Insulation material of conductor		PVC	
Insulation thickness	mm	1.4	
Outer sheath material		PVC	
Thickness of outer sheath	mm	1.9	
Overall diameter of cable(D)	mm	32	
Weight of cable	kg/km	2498	
Weight of copper	kg/km	2359	
Minimum bending radius	mm	15 D	
Nominal voltage	kV	0.6/1.0	
Max. Permissible operating voltage	kV	1.2	
Service voltage	kV	0.4/0.230	
Frequency	Hz	50	
Effective a.c. resistance at 70° C	Ω/km	0.233	
Max. admissible short circuit current (1s)	kA	5.75	
Current carrying capacity (in ground)	A	165	
Inductance per conductor	mH/km	To be specified	
Standards		IEC 60502 DIN VDE 0271 VDE 0295 (IEC60228) VDE0293	



معملاً ۱۰، ۱۵، ۲۰

Table:LV Underground Cable 0.6/1 kV, NYY- 4x 16 RM

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Cable type (four – core)		NYN	
Conductor material		Copper	
Conductor shape		Circular stranded	
Nominal cross-sectional area of conductor	mm ²	16	
Insulation material of conductor		PVC	
Insulation thickness	mm	1.0	
Outer sheath material		PVC	
Thickness of outer sheath	mm	1.8	
Overall diameter of cable(D)	mm	24	
Weight of cable	kg/km	1100	
Minimum bending radius	mm	12 D	
Nominal voltage	kV	0.6/1.0	
Max. Permissible operating voltage	kV	1.2	
Service voltage	kV	0.4/0.230	
Frequency	Hz	50	
Effective a.c. resistance at 70° C	Ω/km	1.38	
Max. admissible short circuit current (1s)	kA	1.84	
Current carrying capacity (in ground)	A	90	
Inductance per conductor	mH/km	To be specified	
Standards		IEC 60502 DIN VDE 0271 VDE 0295 (IEC60228) VDE0293	

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62.5

Table:LV Underground Cable 0.6/1 kV, NYY- 4x 10 RM

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Cable type (four – core)		NYN	
Conductor material		Copper	
Conductor shape		Circular stranded	
Nominal cross-sectional area of conductor	mm ²	10	
Insulation material of conductor		PVC	
Insulation thickness	mm	1.0	
Outer sheath material		PVC	
Thickness of outer sheath	mm	1.8	
Overall diameter of cable(D)	mm	21	
Weight of cable	kg/km	743	
Minimum bending radius	mm	12 D	
Nominal voltage	kV	0.6/1.0	
Max. Permissible operating voltage	kV	1.2	
Service voltage	kV	0.4/0.230	
Frequency	Hz	50	
Effective a.c. resistance at 20° C	Ω/km	1.83	
Max. admissible short circuit current (1s)	kA	1.15	
Current carrying capacity (in ground)	A	60	
Inductance per conductor	mH/km	To be specified	
Standards		IEC 60502 DIN VDE 0271 VDE 0295 (IEC60228) VDE0293	

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69:0:0

مشخصات تخنیکي پروژه اصلاح شبکه برقی 6 کیلوولت به 20 کیلوولت مزار شریف.

Table: LV Underground Cable 0.6/1 kV, NYY- 4x 6 RM

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Cable type (four – core)		NYY-J	
Conductor material		Copper	
Conductor shape		Circular stranded	
Nominal cross-sectional area of conductor	mm ²	6	
Insulation material of conductor		PVC	
Insulation thickness	mm	1.0	
Outer sheath material		PVC	
Thickness of outer sheath	mm	1.8	
Overall diameter of cable (D)	mm	18	
Weight of cable	kg/km	550	
Minimum bending radius	mm	12 D	
Nominal voltage	kV	0.6/1.0	
Max. Permissible operating voltage	kV	1.2	
Service voltage	kV	0.4/0.230	
Frequency	Hz	50	
Effective a.c. resistance at 70° C	Ω/km	1.25	
Max. admissible short circuit current (1s)	kA	1.84	
Current carrying capacity (in ground)	A	60	
Inductance per conductor	mH/km	To be specified	
Standards		IEC 60502 DIN VDE 0271 VDE 0295 (IEC60228) VDE0293	

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مشخصات تخنیکي پروژه اصلاح شبکه برقرسانی 6 کیلوولت به 20 کیلوولت مزار شریف.

Table: Technical Data for Overhead Line Conductor ACSR 120/20 mm²

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Type		Aluminum conductor Steel – reinforced (ACSR)	
Nominal cross-section	mm ²	120/20	
Cross-section ratio AL/St approx.		To be specified	
Steel			
- construction	N/mm	7/1.9	
- diameter	mm	5.7	
- cross-section	mm ²	19.8	
Aluminum			
- construction	N/mm	26/2.44	
- cross-section	mm ²	121.6	
Total cross-section	mm ²	141.4	
Conductor diameter approx.	mm	15.5	
Conductor weight			
- steel	kg/km	156	
- aluminum	kg/km	335	
- grease	kg/km	2.9	
- with grease total approx.	kg/km	493.9	
Current carrying capacity	A	410	
Nominal conductor breaking load	KN	44.5	
Calculated conductor resistance at 20° C	Ω/km	0.2376	
Standard length per reel approx.	m	to be specified	
Dispatch reel nominal size	m	to be specified	
Standard specifications		IEC 209 DIN 48204 BS EN 50182	

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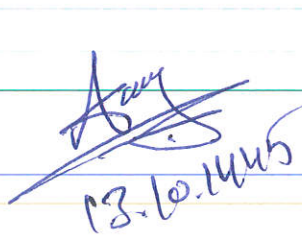



65/10/1445

مشخصات تخنیکي پروژه اصلاح سیکه پرفرسانۍ 6 کیلوولت به 20 کیلوولت مزار شریف.

Table: Technical Data for Overhead Line Conductor ACSR 95/15 mm²

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Type		Aluminum conductor Steel – reinforced (ACSR)	
Nominal cross-section	mm ²	95/15	
Cross-section ratio AL/St approx.		To be specified	
Steel			
- construction	N/mm	7/1.67	
- diameter	mm	5.01	
- cross-section	mm ²	15.3	
Aluminum			
- construction	N/mm	26/2.15	
- cross-section	mm ²	94.4	
Total cross-section	mm ²	109.7	
Conductor diameter approx.	mm	13.6	
Conductor weight			
- steel	kg/km	120	
- aluminum	kg/km	260	
- grease	kg/km	2.2	
- with grease total approx.	kg/km	380.6	
Current carrying capacity	A	350	
Nominal conductor breaking load	KN	34.93	
Calculated conductor resistance at 20° C	Ω/km	0.3060	
Standard length per reel approx.	m	to be specified	
Dispatch reel nominal size	m	to be specified	
Standard specifications		IEC 209 DIN 48204 BS EN 50182	



66.5.10.1445

Table: Technical Data for Overhead Line Conductor ACSR 70/12 mm²

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Type		Aluminum conductor Steel – reinforced (ACSR)	
Nominal cross-section	mm ²	70/12	
Cross-section ratio AL/St approx.		To be specified	
Steel			
- construction	N/mm	7/1,44	
- diameter	mm	4.32	
- cross-section	mm ²	11.4	
Aluminum			
- construction	mm	26/1.85	
- cross-section	mm ²	69.9	
Total cross-section	mm ²	81.3	
Conductor diameter approx.	mm	11.7	
Conductor weight			
- steel	kg/km	89	
- aluminum	kg/km	193	
- grease	kg/km	1.7	
- with grease total approx.	kg/km	283	
Current carrying capacity	A	290	
Nominal conductor breaking load	KN	26.27	
Calculated conductor resistance at 20° C	Ω/km	0.1432	
Standard length per reel approx.	m	to be specified	
Dispatch reel nominal size	m	to be specified	
Standard specifications		IEC 209 DIN 48204 BS EN 50182	

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67/10/1445

Table: Technical Data for Overhead Line Conductor ACSR 50/8 mm²

Designation	Unit	Required	Offered
Manufacturer's name		To be specified	
Type		Aluminum conductor Steel – reinforced (ACSR)	
Nominal cross-section	mm ²	50/8	
Cross-section ratio AL/St approx.		To be specified	
Steel			
- construction	N/mm	1/3.2	
- diameter	mm	3.2	
- cross-section	mm ²	8.04	
Aluminum			
- construction	N/mm	6/3.2	
- cross-section	mm ²	48.3	
Total cross-section	mm ²	56.3	
Conductor diameter approx.	mm	9.6	
Conductor weight			
- steel	kg/km	64	
- aluminum	kg/km	132	
- grease	kg/km	to be specified	
- with grease total approx.	kg/km	196	
Current carrying capacity	A	210	
Nominal conductor breaking load	KN	16.81	
Calculated conductor resistance at 20° C	Ω/km	0.5939	
Standard length per reel approx.	m	to be specified	
Dispatch reel nominal size	m	to be specified	
Standard specifications		IEC 209 DIN 48204 BS EN 50182	

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Table: Technical Data for ABC Low Voltage Cables LV ABC 4 x 16 mm²

Description	Unit	Required	Offered
Manufacturer			
Rated Voltage	kV	0.6/1	
<u>Phases and Neutral</u>			
Material		Aluminum	
Cross section	mm ²	16	
Class		2	
Cross section shape		circular compacted	
Number of wires		≥6	
Diameter of wires	mm	To be specified	
Diameter of conductor	mm	4.8	
Maximum conductor DC resistance at 20 °C	ohm/km	1.91	
Insulation Material		Black XLPE	
Insulation thickness	Mm	1.4	
Breaking load of single core, min.	KN	2.2	
Breaking load of complete cable, min.	KN	8.8	
<u>Technical Characteristics</u>			
Outer diameter of bundle (D)	mm	18.4	
Weight of conductor	kg/km	280	
Minimum bending radius	mm	12 D	
Maximum lay of cores			
Current rating /ambient 40 °C	A	83	
Maximum conductor temperature/normal operation	°C	90	
Maximum conductor temperature/short circuit	°C	250	
Rated short circuit /phase	kA	1.22	
Length of conductor drum	m	To be specified	
Gross weight of loaded drum	kg	To be specified	
Standard		IEC 60502 NFA2X (VDE 0276 - 626 4F-1), AsXS (n) (PL WT92/K396), 1-AES (CSN 34761-4F) AS/NZS 3560.1	

- برآورد هزینه بر اساس سال 1403 -

Make By:
DECON

Reviewed By:

Checked By:

Approved By:

