

11KV LSZH Power Cables to BS 7835

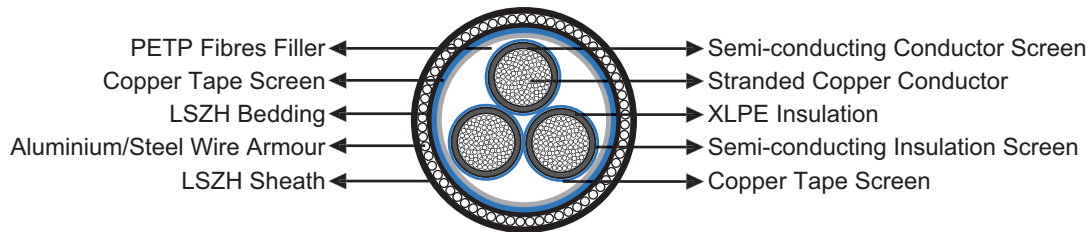
Applications

The cables are power cables for power networks, underground, outdoors and in cable ducting, in particular for installation where fire, smoke emission and toxic fumes create a potential threat.



Standard

- BS 7835
- BS EN 50267-2-1



Construction

- Conductor: Class 2 stranded plain copper conductor to BS EN 60228: 2005 (previously BS 6360).
- Conductor Screen: Semi-conducting material.
- Insulation: XLPE Type GP8 to BS 7655.
- Insulation Screen: Semi-conducting material.
- Metallic Screen: Individual and overall copper tape screen.
- Filler: PETP (Polyethylene Terephthalate) fibres.
- Separator: Binding tape.
- Bedding: LSZH.
- Armour: Aluminium wire armoured (AWA) (for single core cables) or steel wire armoured (SWA) (for multicore cables).
- Sheath: LSZH.

Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm ²	50	70	95	120	150	185	240
Maximum DC Conductor Resistance	Ω/km	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754
Voltage Rating	KV	11						

Nominal Conductor Cross Section	mm ²	300	400	500	630	800	1000
Maximum DC Conductor Resistance	Ω/km	0.0601	0.047	0.0366	0.0283	0.0221	0.0176
Voltage Rating	KV	11					



➤ Mechanical and Thermal Properties

- Minimum Bending Radius: 15×OD (for single core cables); 12×OD (for three core cables).
- Temperature Range: 0°C to +90°C (during operation); 0°C to +60°C (during installation)

➤ Dimensions and Weight

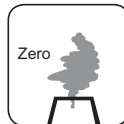
Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No. x mm ²	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm/mm		Nominal Overall Diameter mm	Nominal Weight kg/km
			Inner	Outer		
Copper Conductor						
RF7835-RHZ1MZ1-6.35/11KV-1G50CU	1×50	3.4	1.2	1.8	28.5	1200
RF7835-RHZ1MZ1-6.35/11KV-1G70CU	1×70	3.4	1.2	1.9	30.0	1500
RF7835-RHZ1MZ1-6.35/11KV-1G95CU	1×95	3.4	1.2	1.9	31.7	1600
RF7835-RHZ1MZ1-6.35/11KV-1G120CU	1×120	3.4	1.2	2.0	33.9	2100
RF7835-RHZ1MZ1-6.35/11KV-1G150CU	1×150	3.4	1.2	2.1	35.7	2500
RF7835-RHZ1MZ1-6.35/11KV-1G185CU	1×185	3.4	1.2	2.1	37.5	2900
RF7835-RHZ1MZ1-6.35/11KV-1G240CU	1×240	3.4	1.2	2.2	40.0	3600
RF7835-RHZ1MZ1-6.35/11KV-1G300CU	1×300	3.4	1.2	2.2	43.0	4300
RF7835-RHZ1MZ1-6.35/11KV-1G400CU	1×400	3.4	1.2	2.4	45.8	5200
RF7835-RHZ1MZ1-6.35/11KV-1G500CU	1×500	3.4	1.3	2.5	50.5	6500
RF7835-RHZ1MZ1-6.35/11KV-1G630CU	1×630	3.4	1.4	2.6	54.8	8000
RF7835-RHZ1MZ1-6.35/11KV-1G800CU	1×800	3.4	1.5	2.7	59.2	9850
RF7835-RHZ1MZ1-6.35/11KV-1G1000CU	1×1000	3.4	1.6	2.9	64.3	12100
RF7835-RHZ1MZ1-6.35/11KV-3G25CU	3×25	3.4	1.3	2.4	48.8	4300
RF7835-RHZ1MZ1-6.35/11KV-3G35CU	3×35	3.4	1.3	2.5	51.6	4700
RF7835-RHZ1MZ1-6.35/11KV-3G50CU	3×50	3.4	1.4	2.6	54.6	5300
RF7835-RHZ1MZ1-6.35/11KV-3G70CU	3×70	3.4	1.4	2.7	58.5	6300
RF7835-RHZ1MZ1-6.35/11KV-3G95CU	3×95	3.4	1.5	2.8	62.6	7300
RF7835-RHZ1MZ1-6.35/11KV-3G120CU	3×120	3.4	1.6	3.0	66.6	8400
RF7835-RHZ1MZ1-6.35/11KV-3G150CU	3×150	3.4	1.6	3.1	69.8	9600
RF7835-RHZ1MZ1-6.35/11KV-3G185CU	3×185	3.4	1.7	3.2	74.1	11000
RF7835-RHZ1MZ1-6.35/11KV-3G240CU	3×240	3.4	1.8	3.4	81.2	14000
RF7835-RHZ1MZ1-6.35/11KV-3G300CU	3×300	3.4	1.9	3.6	87.0	16600
RF7835-RHZ1MZ1-6.35/11KV-3G400CU	3×400	3.4	2.0	3.8	95.0	19500
Aluminium Conductor						
RF7835-RHZ1MZ1-6.35/11KV-1G50AL	1×50	3.4	1.2	1.8	39.3	1740
RF7835-RHZ1MZ1-6.35/11KV-1G70AL	1×70	3.4	1.2	1.9	41.0	1850
RF7835-RHZ1MZ1-6.35/11KV-1G95AL	1×95	3.4	1.2	1.9	42.9	2100
RF7835-RHZ1MZ1-6.35/11KV-1G120AL	1×120	3.4	1.2	2.0	44.5	2250
RF7835-RHZ1MZ1-6.35/11KV-1G150AL	1×150	3.4	1.2	2.1	47.3	2600
RF7835-RHZ1MZ1-6.35/11KV-1G185AL	1×185	3.4	1.2	2.1	49.3	2850
RF7835-RHZ1MZ1-6.35/11KV-1G240AL	1×240	3.4	1.2	2.2	51.7	3150
RF7835-RHZ1MZ1-6.35/11KV-1G300AL	1×300	3.4	1.2	2.2	54.4	3600
RF7835-RHZ1MZ1-6.35/11KV-1G400AL	1×400	3.4	1.2	2.4	57.7	4000
RF7835-RHZ1MZ1-6.35/11KV-1G500AL	1×500	3.4	1.3	2.5	61.1	4500
RF7835-RHZ1MZ1-6.35/11KV-1G630AL	1×630	3.4	1.4	2.6	65.0	5250
RF7835-RHZ1MZ1-6.35/11KV-1G800AL	1×800	3.4	1.5	2.7	71.6	6150
RF7835-RHZ1MZ1-6.35/11KV-1G1000AL	1×1000	3.4	1.6	2.9	76.5	7200
RF7835-RHZ1MZ1-6.35/11KV-3G50AL	3×50	3.4	1.4	2.6	78.2	8300
RF7835-RHZ1MZ1-6.35/11KV-3G70AL	3×70	3.4	1.4	2.7	82.1	9050
RF7835-RHZ1MZ1-6.35/11KV-3G95AL	3×95	3.4	1.5	2.8	86.1	9800
RF7835-RHZ1MZ1-6.35/11KV-3G120AL	3×120	3.4	1.6	3.0	90.0	10600
RF7835-RHZ1MZ1-6.35/11KV-3G150AL	3×150	3.4	1.6	3.1	93.2	11350
RF7835-RHZ1MZ1-6.35/11KV-3G185AL	3×185	3.4	1.7	3.2	97.5	12250
RF7835-RHZ1MZ1-6.35/11KV-3G240AL	3×240	3.4	1.8	3.4	103.3	13700
RF7835-RHZ1MZ1-6.35/11KV-3G300AL	3×300	3.4	1.9	3.6	108.8	15500
RF7835-RHZ1MZ1-6.35/11KV-3G400AL	3×400	3.4	2.0	3.8	116.1	16750



Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1



Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266



Zero Halogen
IEC 60754-1/NF C20-454
EN 50267-2-1



Low Smoke Emission
IEC 61034/NFC20-902
EN 50268/NF C32-073



Low Corrosivity
EN 50267-2-2/NF C32-074
IEC 60754-2/NF C20-453



Low Toxicity