

## 11KV LSZH Power Cables to BS 7835

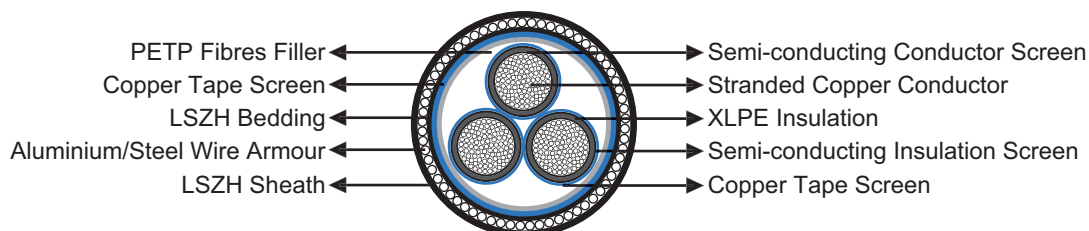
### Applications

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 <sup>2</sup>	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 <sup>2</sup>	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

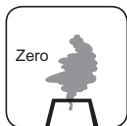
Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No. x mm <sup>2</sup>	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm/mm		Nominal Overall Diameter mm	Nominal Weight kg/km
			Inner	Outer		
<b>Copper Conductor</b>						
RF7835-RHZ1MZ1-6.35/11KV-1G50CU	1×50	3.4	1.2	1.8	28.5	1200
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
<b>Aluminium Conductor</b>						
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**