

SW-CLT Switching Centre Cables

Applications

The cables are used as block cables for railway. The cables are suitable for connection between local switching centre and the trackside and signalling equipments.

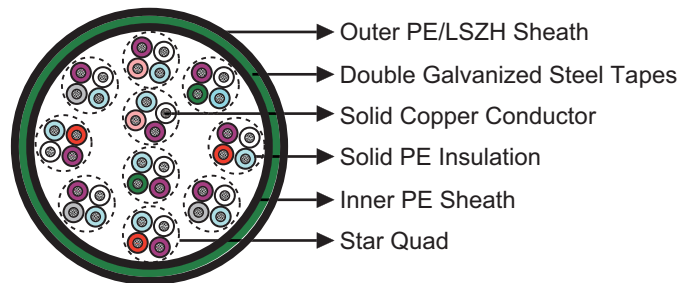


Standards

- CFF: I-EB-SK 3001.82.1000

Construction

- Conductors: Class 1 solid copper, 1.0/1.5/2.2mm nominal diameter.
- Insulation: Solid polyethylene.
- Cabling Element: Four conductors are twisted together to form a quad.
- Inner Sheath: PE sheath.
- Armour: Double galvanized steel tapes of 0.15mm.
- Outer Sheath: PE/LSZH sheath.



Optional

Unarmoured Cable: The cables offered without galvanized steel tapes (SW).

Traction Armoured Cable: The cables offered with galvanized steel flat wire armour with or without protection sheath (SW-F/FT).

Halogenfree Sheathed Cable: The cables offered with LSZH sheath according to IEC 60332-3C (SW-CLN/FN).

Electrical Characteristics at 20°C

Nominal Conductor Diameter	mm	1.0	1.5	2.2
Maximum Conductor Resistance (DC)	Ω/km	47.0	20.9	10.0
Minimum Insulation Resistance @500 V DC (3mins)	MΩ.km	10000	10000	10000
Maximum Mutual Capacitance @800Hz	nF/km	42	52	60
Maximum Capacitance Unbalance				
In quad	pF/km	400	400	400
Between quads	pF/km	400	400	400
Real-ground	pF/km	650	650	650
Operating Voltage AC/DC	V	500/800		



➤ Mechanical and Thermal Properties

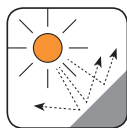
- Minimum Bending Radius: 10×OD
- Temperature Range: -30°C to +60°C (during operation); -10°C +60°C (during installation)

➤ Dimensions and Weight

Cable Code	No. of Quads	Nominal Sheath Thickness mm		Nominal Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
1.0mm Conductor, 1.8mm Insulated Wire					
RS/SW-CLT-2Y2YB2Y-1Q1	1	1.0	1.5	12.7	161
RS/SW-CLT-2Y2YB2Y-2Q1	2	1.0	1.5	17.5	335
RS/SW-CLT-2Y2YB2Y-3Q1	3	1.0	1.7	18.3	390
RS/SW-CLT-2Y2YB2Y-4Q1	4	1.0	1.7	20.4	455
RS/SW-CLT-2Y2YB2Y-5Q1	5	1.0	1.7	21.7	543
RS/SW-CLT-2Y2YB2Y-7Q1	7	1.2	1.8	23.3	640
RS/SW-CLT-2Y2YB2Y-10Q1	10	1.2	2.0	28.4	896
RS/SW-CLT-2Y2YB2Y-15Q1	15	1.2	2.2	33.0	1260
RS/SW-CLT-2Y2YB2Y-20Q1	20	1.2	2.3	37.1	1590
RS/SW-CLT-2Y2YB2Y-25Q1	25	1.2	2.4	41.7	1960
RS/SW-CLT-2Y2YB2Y-30Q1	30	1.3	2.5	43.2	2130
1.5mm Conductor, 2.8mm Insulated Wire					
RS/SW-CLT-2Y2YB2Y-1Q1.5	1	1.0	1.5	15.1	240
RS/SW-CLT-2Y2YB2Y-2Q1.5	2	1.0	1.5	23.6	491
RS/SW-CLT-2Y2YB2Y-3Q1.5	3	1.0	1.7	24.4	585
RS/SW-CLT-2Y2YB2Y-4Q1.5	4	1.0	1.7	27.5	684
RS/SW-CLT-2Y2YB2Y-5Q1.5	5	1.0	1.7	30.5	793
RS/SW-CLT-2Y2YB2Y-7Q1.5	7	1.2	1.8	32.9	1030
RS/SW-CLT-2Y2YB2Y-10Q1.5	10	1.2	2.0	42.5	1460
RS/SW-CLT-2Y2YB2Y-15Q1.5	15	1.2	2.2	49.2	2060
RS/SW-CLT-2Y2YB2Y-20Q1.5	20	1.2	2.3	57.0	2600
RS/SW-CLT-2Y2YB2Y-25Q1.5	25	1.2	2.4	62.8	3300
RS/SW-CLT-2Y2YB2Y-30Q1.5	30	1.3	2.5	64.4	3660
2.2mm Conductor, 3.8mm Insulated Wire					
RS/SW-CLT-2Y2YB2Y-1Q2.2	1	1.0	1.5	13.1	346
RS/SW-CLT-2Y2YB2Y-2Q2.2	2	1.0	1.5	20.4	573
RS/SW-CLT-2Y2YB2Y-3Q2.2	3	1.0	1.7	21.4	934
RS/SW-CLT-2Y2YB2Y-4Q2.2	4	1.0	1.7	23.1	1329
RS/SW-CLT-2Y2YB2Y-5Q2.2	5	1.0	1.7	25.5	1380
RS/SW-CLT-2Y2YB2Y-7Q2.2	7	1.2	1.8	27.4	1730
RS/SW-CLT-2Y2YB2Y-10Q2.2	10	1.2	2.0	33.7	2560
RS/SW-CLT-2Y2YB2Y-15Q2.2	15	1.2	2.2	39.2	3630
RS/SW-CLT-2Y2YB2Y-20Q2.2	20	1.2	2.3	43.4	4780
RS/SW-CLT-2Y2YB2Y-25Q2.2	25	1.2	2.4	50.1	5850
RS/SW-CLT-2Y2YB2Y-30Q2.2	30	1.3	2.5	51.8	6580



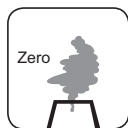
Anti Induction



UV Resistant



Water Resistant



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



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