



XLPE/PVC/SWA/PVC

600/1000V

BS5467

XLPE insulated, PVC sheathed, round wire armoured cables

APPLICATIONS

For use in fixed installations in industrial areas, buildings and similar applications.

Standard length cable packing

500 or 1000 m on drums.
Other forms of packing and delivery are available on request.

CONSTRUCTION

Conductors:	Annealed copper solid class 1(RE), circular or circular compacted stranded conductor class 2 (RM) or stranded sector – shaped conductor class 2 (SM) acc. to BS EN 60228
Insulation:	Cross-linked polyethylene XLPE type GP8 acc. to BS 7655-1.3
Bedding:	PVC compound
Armour:	For single-core cables - single layer of aluminium wires applied spirally over the bedding (AWA) for two or more cores cables – single layer of galvanized steel wires applied spirally over the bedding (SWA)
Sheath:	Black PVC compound Type 9 acc. to BS 7655-4.2



CHARACTERISTICS

Colour of sheath:	black
Core identification: <i>Other colors available at customer request</i>	
2-core:	brown, blue
3-core:	brown, black, grey
4-core:	blue, brown, black, grey
5-core:	green-yellow, blue, brown, black, grey
auxiliary cables:	white with black numbering

Maximum conductor operating temperature:	+90°C
Lowest ambient temperature for fixed installation:	-30°C
Lowest installation temperature:	0°C
Maximum short-circuit conductor temperature:	+250°C
Minimum bending radius:	6 x D for cables with circular copper conductors and 8 x D for cables with shaped copper conductors; D – overall diameter of the cable D – overall diameter of the cable
Test voltage:	3,5kV

Fire performance

Flame retardant: BS EN 60332-1-2

CPR – class reaction to fire (acc EN 50575): Eca

Approvals

XLPE/PVC/SWA/PVC: BASEC

XLPE/PVC/SWA/PVC 600/1000V

Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	Maximum armour resistance at 20°C
n x mm²	mm	kg/km	Ω/km	Ω/km
2x1,5RM	11,5	256	12,1	10,2
2x2,5RM	13	324	7,41	8,8
2x4RM	14	386	4,61	7,9
2x6RM	14,7	444	3,08	7
2x10RM	16,8	595	1,83	6
2x16RM	19,5	879	1,15	3,7
2x25RM	23,1	1214	0,727	3,2
2x35SM	21,6	1300	0,524	2,6
2x35RM	26,5	1667	0,524	2,2

Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	Maximum armour resistance at 20°C
n x mm²	mm	kg/km	Ω/km	Ω/km
2x50SM	23,7	1610	0,387	2,3
2x50RM	29,9	2106	0,387	2
2x70SM	27,6	2145	0,268	2
2x70RM	34,4	2957	0,268	1,4
2x95SM	30,5	2922	0,193	1,4
2x95RM	38,5	3769	0,193	1,2
2x120SM	33	3496	0,153	1,3
2x120RM	41,7	4473	0,153	1,1
2x150SM	36	4170	0,124	1,2
2x185SM	40,9	5464	0,0991	0,82
2x240SM	44,6	6753	0,0754	0,73
2x300SM	50,3	8256	0,0601	0,67
3x1,5RM	12	279	12,1	9,5
3x2,5RM	13,5	356	7,41	8,2
3x4RM	14,6	436	4,61	7,5
3x6RM	15,4	511	3,08	6,7
3x10RM	18,3	786	1,83	4
3x16RM	20,7	1048	1,15	3,5
3x25RM	25,6	1631	0,727	2,3
3x25SM	23,2	1417	0,727	2,5
3x35RM	28,1	2029	0,524	2,1
3x35SM	25,3	1773	0,524	2,3
3X35RM	28,1	2029	0,524	2,1
3x50SM	27,6	2208	0,387	2
3x50RM	31,5	2561	0,387	1,8
3x70SM	31,3	2935	0,268	1,8
3x70RM	36,2	3619	0,268	1,3
3x95SM	35,8	4055	0,193	1,3
3x95RM	41,2	4704	0,193	1,2
3x120SM	38,9	4895	0,153	1,2
3x120RM	45,9	6110	0,153	0,76
3x150SM	44,2	6353	0,124	0,78
3x185SM	48,2	7625	0,0991	0,71
3x240SM	53,1	9529	0,0754	0,63
3x300SM	57,9	11446	0,0601	0,58

Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	Maximum armour resistance at 20°C
n x mm²	mm	kg/km	Ω/km	Ω/km
4x1,5RM	12,7	313	12,1	8,8
4x2,5RM	14,4	406	7,41	7,7
4x4RM	15,7	503	4,61	6,8
4x6RM	17,4	689	3,08	4,3
4x10RM	19,6	923	1,83	3,7
4x16RM	22,3	1252	1,15	3,1
4x25SM	25,6	1765	0,727	2,3
4x25RM	27,7	1936	0,727	2,1
4x35SM	27,9	2197	0,524	2
4x35RM	30,4	2448	0,524	1,9
4x50SM	30,9	2787	0,387	1,8
4x50RM	35,6	3396	0,387	1,3
4x70SM	36,4	4017	0,268	1,2
4x70RM	39,8	4438	0,268	1,2
4x95SM	40	5137	0,193	1,1
4x95RM	46,1	6232	0,193	0,76
4x120SM	45,3	6738	0,153	0,76
4x120RM	50,1	7469	0,153	0,69
4x150SM	49,4	8032	0,124	0,68
4x185SM	54	9723	0,0991	0,61
4x240SM	59,9	12247	0,0754	0,54
4x300SM	64,9	14690	0,0601	0,49
4x400SM	75,5	19575	0,047	0,35
5x1,5RM	13,7	362	12,1	8,2
5x2,5RM	15,4	464	7,41	6,8
5x4RM	17	585	4,61	6,2
5x6RM	18,7	798	3,08	3,9
5x10RM	21,4	1096	1,83	3,4
5x16RM	25,4	1630	1,15	2,2
5x25RM	30,1	2301	0,727	1,8
5x35RM	33,2	2906	0,524	1,6
5x50RM	38,6	4009	0,387	1,1
5x70RM	43,2	5286	0,268	0,94
7x1,5RM	14,7	405	12,1	7,5
7x2,5RM	16,6	525	7,41	6,3
7x4RM	19	767	4,61	4

Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	Maximum armour resistance at 20°C
n x mm²	mm	kg/km	Ω/km	Ω/km
12x1,5RM	18,9	672	12,1	4
12x2,5RM	21,7	890	7,41	3,5
12x4RM	25	1284	4,61	2,3
19x1,5RM	21,5	887	12,1	3,5
19x2,5RM	26	1346	7,41	2,3
19x4RM	28,6	1726	4,61	2
27x1,5RM	26,1	1291	12,1	2,3
27x2,5RM	30,2	1740	7,41	1,9
37x1,5RM	28,5	1572	12,1	2
37x2,5RM	33,1	2133	7,41	1,7

* *Based on norm*

The information contained in this document, including the tables and drawings, are provided for illustrative purposes only and not a commercial offer; nor may it constitute the basis for pursuing any claim against TELE-FONIKA KABLE SA. The suitability of any product including properties, should be made by a qualified person; having already gained the appropriate permissions and documentation, to ensure compliance with any applicable law or regulation.