

SAFETY CABLES

ABHAR CABLE CO.



ISO 9002
Certificate No.
QS-1147HH



Accredited by the
Dutch Council for
Accreditation

**AC ABHAR
CABLE**



Safety cables

Fire resistant cables should be able to achieve the required performance under fire condition, this is categorized as resistance to fire alone, resistance to fire with water and / or resistance to fire with mechanical shock.

Cables used within public buildings, emergency systems such as fire alarm circuits, and emergency lighting systems should, as a minimum requirement, not be of any danger to the health of people or the integrity of the wiring structure of the building through acid gas emissions during a fire.

They should also be self- extinguishing and low smoke emitting, in other words they should not continue to burn once the source of fire is removed and neither should they propagate fire to other areas , and the smoke produced should not prevent the people from observing emergency lightings and exit routes.

Halogen free cables fulfill self- extinguishing and low smoke emitting properties and, in addition, the halogen content in the gases emitted from burning cable is nearly zero.

AC produce a wide variety of fire resistant and halogen free cables for LV, Instrumentation, Control, Telecommunication and Signalling ranges.



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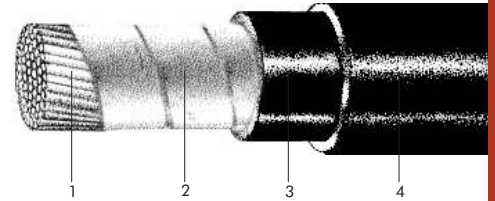
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Cu/MGT/XLPE/LSFOH

IEC 60502-1

Description:

Mica/XLPE insulated, single core, halogen free, low smoke, fire resistant power cable, with 180 min. circuit integrity



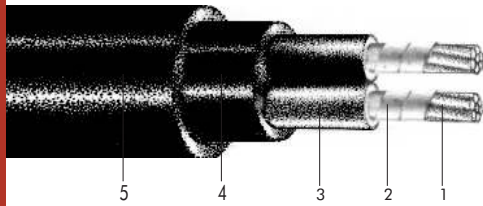
Number of Cores & Cross Section mm ²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1x 1.5 RE	0.7	1.4	6.9	56
1x 2.5 RE	0.7	1.4	7.3	69
1x 4 RE	0.7	1.4	7.7	87
1x 6 RE	0.7	1.4	8.2	109
1x 10 RM	0.7	1.4	9.5	160
1x 16 RM	0.7	1.4	10.3	216
1x 25 RM	0.9	1.4	11.9	317
1x 35 RM	0.9	1.4	12.9	412
1x 50 RM	1.0	1.4	14.3	539
1x 70 RM	1.1	1.4	16.2	746
1x 95 RM	1.1	1.5	18.1	1003
1x 120 RM	1.2	1.5	20.0	1243
1x 150 RM	1.4	1.6	21.9	1526
1x 185 RM	1.6	1.7	24.3	1898
1x 240 RM	1.7	1.8	27.1	2459
1x 300 RM	1.8	1.8	29.4	3031

1-Solid/Stranded Circular Conductor 2-Mica, glass fiber Tape 3-XLPE Insulation 4-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332

Fire resistant as per IEC 331

Maximum conductor Temperature 90 C

**IEC 60502-1****Cu/MGT/XLPE/LSFOH/LSFOH****Description:**

Mica/XLPE insulated, two & five cores, halogen free, low smoke, fire resistant power cable, with 180 min. circuit integrity

Number of Cores & Cross Section mm ²		Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
2x 1.5	RE	0.7	1.8	13.8	221
2x 2.5	RE	0.7	1.8	14.6	261
2x 4	RE	0.7	1.8	15.4	310
2x 6	RE	0.7	1.8	16.4	374
2x 10	RM	0.7	1.8	19.0	531
2x 16	RM	0.7	1.8	20.7	680
2x 25	RM	0.9	1.8	24.0	972
5x 1.5	RE	0.7	1.8	16.5	318
5x 2.5	RE	0.7	1.8	17.5	388
5x 4	RE	0.7	1.8	18.6	486
5x 6	RE	0.7	1.8	20.1	613
5x 10	RM	0.7	1.8	23.7	908
5x 16	RM	0.7	1.8	25.8	1210
5x 25	RM	0.9	1.8	30.4	1779

1-Solid/Stranded Circular Conductor 2-Mica, glass fiber Tape 3-XLPE Insulation 4-Halogen Free Filler 5-Halogen Free Flame Retardant Sheathing

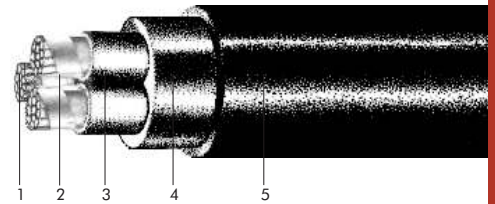
Flame retardant as per IEC 332

Fire resistant as per IEC 331

Maximum conductor Temperature 90 C

Description:

Mica/XLPE insulated, three cores, halogen free, low smoke, fire resistant power cable, with 180 min. circuit integrity



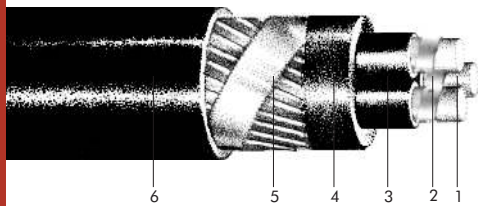
Number of Cores & Cross Section mm ²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x1.5 RE	0.7	1.8	14.4	245
3x2.5 RE	0.7	1.8	15.3	295
3x 4 RE	0.7	1.8	16.1	357
3x 6 RE	0.7	1.8	17.2	440
3x 10 RM	0.7	1.8	20.1	634
3x 16 RM	0.7	1.8	21.9	835
3x 25 RM	0.9	1.8	25.4	1207
3x 35 RM	0.9	1.8	27.5	1538
3x 50 RM	1.0	1.8	30.7	1989
3x 70 RM	1.1	2.0	35.9	2803
3x 95 RM	1.1	2.1	39.8	3691
3x 120 RM	1.2	2.2	43.8	4565
3x 150 RM	1.4	2.3	48.1	5598
3x 185 RM	1.6	2.5	53.4	6947
3x 240 RM	1.7	2.7	60.2	8987
3x 300 RM	1.8	2.8	65.1	11003

1-Solid/Stranded Circular Conductor 2-Mica, glass fiber Tape 3-XLPE Insulation 4-Halogen Free Filler 5-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332

Fire resistant as per IEC 331

Maximum conductor Temperature 90 C

**IEC 60502-1 Cu/MGT/XLPE/LSFOH/CWS/LSFOH****Description:**

Mica/XLPE insulated, three cores + copper screen, halogen free, low smoke, fire resistant power cable with 180 min. circuit integrity

Number of Cores & Cross Section mm ²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x1.5 RE/ 1.5 CS	0.7	1.8	15.8	287
3x2.5 RE/ 2.5 CS	0.7	1.8	16.7	339
3x 4 RE/ 4.0 CS	0.7	1.8	17.5	406
3x 6 RE/ 6.0 CS	0.7	1.8	18.6	508
3x 10 RE/ 10 CS	0.7	1.8	21.5	738
3x 16 RM/ 16 CS	0.7	1.8	23.3	996
3x 25 RM/ 16 CS	0.9	1.8	26.8	1368
3x 35 RM/ 16 CS	0.9	1.8	28.9	1699
3x 50 RM/ 25 CS	1.0	1.9	32.8	2250
3x 70 RM/ 35 CS	1.1	2.0	37.7	3142
3x 95 RM/ 50 CS	1.1	2.1	42.2	4176
3x120 RM/ 70 CS	1.2	2.3	47.0	5262
3x150 RM/ 70 CS	1.4	2.4	51.4	6298
3x185 RM/ 95 CS	1.6	2.6	56.9	7892
3x240 RM/120 CS	1.7	2.8	64.2	10170
3x300 RM/150 CS	1.8	2.9	69.2	12469

1-Solid/Stranded Circular Conductor 2-Mica, glass fiber Tape 3-XLPE Insulation 4-Halogen Free Filler 5-Copper Wire Screen With Helical Copper Tape

6-Halogen Free Flame Retardant Sheathing

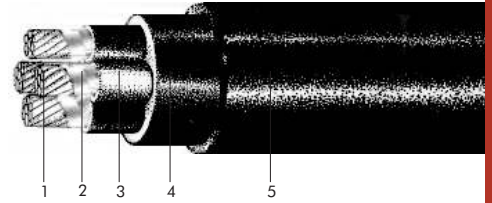
Flame retardant as per IEC 332

Fire resistant as per IEC 331

Maximum conductor Temperature 90 C

Cu/MGT/XLPE/LSFOH/LSFOH**IEC 60502-1****Description:**

Mica/XLPE insulated, four cores, halogen free, low smoke, fire resistant power cable, with 180 min. circuit integrity



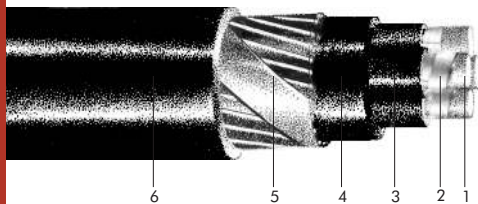
Number of Cores & Cross Section mm ²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x 1.5 RE	0.7	1.8	15.4	280
4x 2.5 RE	0.7	1.8	16.3	338
4x 4 RE	0.7	1.8	17.3	420
4x 6 RE	0.7	1.8	18.5	523
4x 10 RM	0.7	1.8	21.8	768
4x 16 RM	0.7	1.8	23.8	1022
4x 25 RM	0.9	1.8	27.6	1483
4x 35 RM	0.9	1.8	30.3	1917
4x 50 RM	1.0	1.9	34.5	2547
4x 70 RM	1.1	2.1	39.5	3528
4x 95 RM	1.1	2.2	43.9	4661
4x 120 RM	1.2	2.3	48.7	5825
4x 150 RM	1.4	2.5	53.3	7114
4x 185 RM	1.6	2.7	59.8	8885
4x 240 RM	1.7	2.9	66.8	11450
4x 300 RM	1.8	3.1	72.4	14061

1-Solid/Stranded Circular Conductor 2-Mica, glass fiber Tape 3-XLPE Insulation 4-Halogen Free Filler 5-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332

Fire resistant as per IEC 331

Maximum conductor Temperature 90 C

**IEC 60502-1 Cu/MGT/XLPE/LSFOH/CWS/LSFOH****Description:**

Mica/XLPE insulated, four cores + copper screen, halogen free, low smoke, fire resistant power cable with 180 min. Circuit integrity

Number of Cores & Cross Section mm ²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x1.5 RE/ 1.5 CS	0.7	1.8	16.8	325
4x2.5 RE/ 2.5 CS	0.7	1.8	17.7	383
4x 4 RE/ 4.0 CS	0.7	1.8	18.7	470
4x 6 RE/ 6.0 CS	0.7	1.8	20.0	591
4x 10 RM/ 10 CS	0.7	1.8	23.2	872
4x 16 RM/ 16 CS	0.7	1.8	25.2	1183
4x 25 RM/ 16 CS	0.9	1.8	29.0	1644
4x 35 RM/ 16 CS	0.9	1.8	31.7	2078
4x 50 RM/ 25 CS	1.0	2.0	36.5	2810
4x 70 RM/ 35 CS	1.1	2.1	41.3	3868
4x 95 RM/ 50 CS	1.1	2.3	46.5	5169
4x120 RM/ 70 CS	1.2	2.4	52.0	6525
4x150 RM/ 70 CS	1.4	2.6	56.8	7819
4x185 RM/ 95 CS	1.6	2.7	62.8	9806
4x240 RM/120 CS	1.7	3.0	70.8	12639
4x300 RM/150 CS	1.8	3.2	76.4	15536

1-Solid/Stranded Circular Conductor 2-Mica, glass fiber Tape 3-XLPE Insulation 4-Halogen Free Filler 5-Copper Wire Screen With Helical Copper Tape

6-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332

Fire resistant as per IEC 331

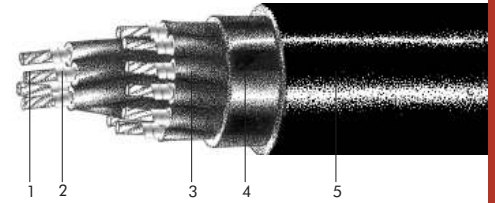
Maximum conductor Temperature 90 C

Cu/MGT/XLPE/LSFOH/LSFOH

IEC 60502-1

Description:

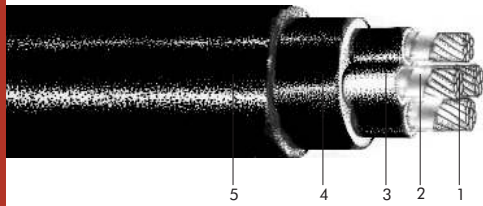
Mica/XLPE insulated, multi core, halogen free, low smoke, fire resistant control cable, with 180 min. circuit integrity



Number of Cores & Cross Section mm ²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
7 x 1.5 RM	0.7	1.8	16.1	281
10x 1.5 RM	0.7	1.8	20.2	384
12x 1.5 RM	0.7	1.8	20.8	435
14x 1.5 RM	0.7	1.8	21.8	490
19x 1.5 RM	0.7	1.8	24.2	625
24x 1.5 RM	0.7	1.8	28.2	775
30x 1.5 RM	0.7	1.8	30.0	926
7 x 2.5 RM	0.7	1.8	17.6	369
10x 2.5 RM	0.7	1.8	22.2	509
12x 2.5 RM	0.7	1.8	22.9	582
14x 2.5 RM	0.7	1.8	24.0	659
19x 2.5 RM	0.7	1.8	26.7	851
24x 2.5 RM	0.7	1.8	31.4	1059
30x 2.5 RM	0.7	1.9	33.5	1292

1-Stranded Circular Conductor 2-Mica, glass fiber Tape 3-XLPE Insulation 4-Halogen Free Filler 5-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332
Fire resistant as per IEC 331
Maximum conductor Temperature 90 C

**IEC 60502-1****Cu/MGT/XLPE/LSFOH/LSFOH****Description:**

Mica/XLPE insulated, 31/2 core, halogen free, low smoke, fire resistant power cable, with 180 min. circuit integrity

Number of Cores & Cross Section mm ²	Insulation Thickness		Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
	PH mm	N mm			
3x 25 + 16 RM	0.9	0.7	1.8	27.6	1408
3x 35 + 16 RM	0.9	0.7	1.8	30.3	1765
3x 50 + 25 RM	1.0	0.9	1.9	34.5	2410
3x 70 + 35 RM	1.1	0.9	2.1	39.5	3314
3x 95 + 50 RM	1.1	1.0	2.2	43.9	4263
3x120 + 70 RM	1.2	1.1	2.3	48.7	5393
3x150 + 70 RM	1.4	1.1	2.5	53.3	6450
3x185 + 95 RM	1.6	1.1	2.7	59.8	8136
3x240 + 120 RM	1.7	1.2	2.9	66.8	10428
3x300 + 150 RM	1.8	1.4	3.1	72.4	12766

1-Stranded Circular Conductor 2-Mica, glass fiber Tape 3-XLPE Insulation 4-Halogen Free Filler 5-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332

Fire resistant as per IEC 331

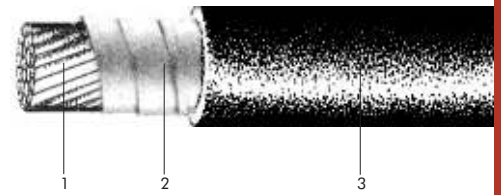
Maximum conductor Temperature 90 C

Cu/MGT/LSFOH

IEC 60227-3

Description:

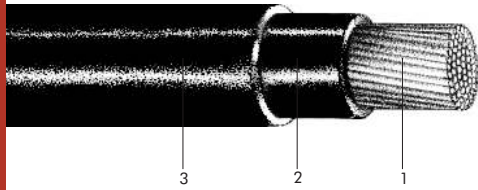
Mica/halogen free insulated, low smoke, fire resistant cord, with 180 min. circuit integrity



Number of Cores & Cross Section mm ²	Insulation Thickness mm	Outer Diameter Approx. mm	Total Weight Approx. kg/km
1.5 RE	0.7	3.8	25
2.5 RE	0.8	4.4	37
4.0 RE	0.8	4.8	53
6 RE	0.8	5.3	73
10 RM	1.0	7.0	123
16 RM	1.0	8.2	178
25 RM	1.2	9.9	275
35 RM	1.2	11.0	367

1-Solid/Stranded Circular Conductor 2-Mica, glass fiber Tape 3-Halogen Free Flame Retardant Insulation

Flame retardant as per IEC 332
Fire resistant as per IEC 331
Maximum conductor Temperature 90 C



IEC 60502-1

Cu/XLPE/LSFOH

Description:

XLPE insulated, single core, halogen free, low smoke, flame retardant power cable

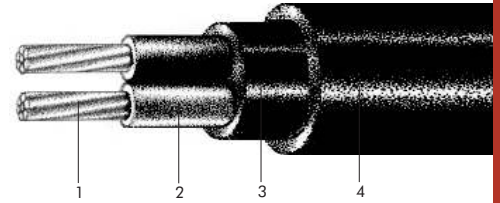
Number of Cores & Cross Section mm ²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
1x 1.5 RE	0.7	1.4	5.9	45
1x 2.5 RE	0.7	1.4	6.3	58
1x 4 RE	0.7	1.4	6.8	76
1x 6 RE	0.7	1.4	7.3	97
1x 10 RM	0.7	1.4	8.6	146
1x 16 RM	0.7	1.4	9.3	200
1x 25 RM	0.9	1.4	10.9	299
1x 35 RM	0.9	1.4	11.9	393
1x 50 RM	1.0	1.4	13.3	517
1x 70 RM	1.1	1.4	15.2	722
1x 95 RM	1.1	1.5	17.1	976
1x 120 RM	1.2	1.5	19.0	1213
1x 150 RM	1.4	1.6	21.0	1494
1x 185 RM	1.6	1.6	23.1	1851
1x 240 RM	1.7	1.7	25.9	2407
1x 300 RM	1.8	1.8	28.2	2987

1-Solid/Stranded Circular Conductor 2-XLPE Insulation 3-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332
Maximum conductor Temperature 90 C

Cu/XLPE/LSFOH/LSFOH**IEC 60502-1****Description:**

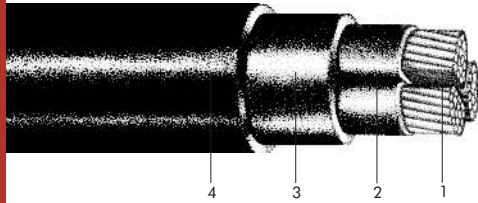
XLPE insulated, two & five cores, halogen free, low smoke, flame retardant power cable



Number of Cores & Cross Section mm ²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
2x 1.5 RE	0.7	1.8	11.8	170
2x 2.5 RE	0.7	1.8	12.6	206
2x 4 RE	0.7	1.8	13.6	258
2x 6 RE	0.7	1.8	14.6	318
2x 10 RM	0.7	1.8	17.2	465
2x 16 RM	0.7	1.8	18.6	603
2x 25 RM	0.9	1.8	22.0	882
5x 1.5 RE	0.7	1.8	13.8	248
5x 2.5 RE	0.7	1.8	14.8	313
5x 4 RE	0.7	1.8	16.2	414
5x 6 RE	0.7	1.8	17.5	531
5x 10 RM	0.7	1.8	21.2	812
5x 16 RM	0.7	1.8	23.1	1102
5x 25 RM	0.9	1.8	27.5	1653

1-Solid/Stranded Circular Conductor 2-XLPE Insulation 3-Halogen Free filler 4-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332
Maximum conductor Temperature 90 C

**IEC 60502-1****Cu/XLPE/LSFOH/LSFOH****Description:**

XLPE insulated, three cores, halogen free, low smoke, flame retardant power cable

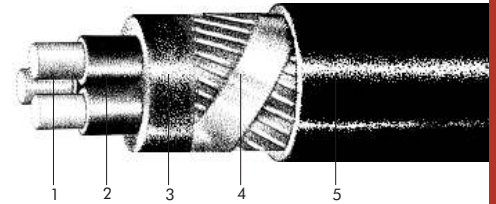
Number of Cores & Cross Section mm ²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x 1.5 RE	0.7	1.8	12.2	189
3x 2.5 RE	0.7	1.8	13.1	236
3x 4 RE	0.7	1.8	14.2	302
3x 6 RE	0.7	1.8	15.3	381
3x 10 RM	0.7	1.8	18.1	566
3x 16 RM	0.7	1.8	19.7	751
3x 25 RM	0.9	1.8	23.2	1109
3x 35 RM	0.9	1.8	25.4	1439
3x 50 SM	1.0	1.8	26.6	1542
3x 70 SM	1.1	1.9	31.1	2169
3x 95 SM	1.1	2.0	35.0	2934
3x 120 SM	1.2	2.1	38.5	3667
3x 150 SM	1.4	2.3	43.0	4532
3x 185 SM	1.6	2.4	47.9	5643
3x 240 SM	1.7	2.6	53.7	7346
3x 300 SM	1.8	2.7	59.4	9117

1-Solid/Stranded Circular Conductor 2-XLPE Insulation 3-Halogen Free filler 4-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332
Maximum conductor Temperature 90 C

Cu/XLPE/LSFOH/CWS/LSFOH**IEC 60502-1****Description:**

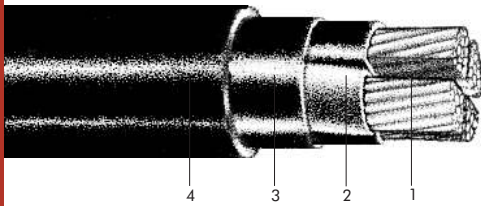
XLPE insulated, three cores+copper screen, halogen free, low smoke, flame retardant power cable



Number of Cores & Cross Section mm ²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
3x1.5 RE/ 1.5 CS	0.7	1.8	13.6	229
3x2.5 RE/ 2.5 CS	0.7	1.8	14.5	275
3x 4 RE/ 4.0 CS	0.7	1.8	15.6	352
3x 6 RE/ 6.0 CS	0.7	1.8	16.7	449
3x 10 RM/ 10 CS	0.7	1.8	19.6	670
3x 16 RM/ 16 CS	0.7	1.8	21.1	912
3x 25 RM/ 16 CS	0.9	1.8	24.6	1270
3x 35 RM/ 16 CS	0.9	1.8	26.8	1600
3x 50 SM/ 25 CS	1	1.8	30.8	1956
3x 70 SM/ 35 CS	1.1	2	35.4	2720
3x 95 SM/ 50 CS	1.1	2.1	40.4	3706
3x120 SM/ 70 CS	1.2	2.2	44.6	4656
3x150 SM/ 70 CS	1.4	2.4	49.6	5618
3x185 SM/ 95 CS	1.6	2.5	54.4	7015
3x240 SM/120 CS	1.7	2.7	61.8	9079
3x300 SM/150 CS	1.8	2.9	67.6	11223

1-Solid/Stranded Circular Conductor 2-XLPE Insulation 3-Halogen Free filler 4-Copper Wire Screen with Cu helical tape 5-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332
Maximum conductor Temperature 90 C

**IEC 60502-1****Cu/XLPE/LSFOH/LSFOH****Description:**

XLPE insulated, four cores, halogen free, low smoke, flame retardant power cable

Number of Cores & Cross Section mm ²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x 1.5 RE	0.7	1.8	13.0	219
4x 2.5 RE	0.7	1.8	13.9	273
4x 4 RE	0.7	1.8	15.1	355
4x 6 RE	0.7	1.8	16.3	453
4x 10 RM	0.7	1.8	19.6	686
4x 16 RM	0.7	1.8	21.3	923
4x 25 RM	0.9	1.8	25.2	1375
4x 35 RM	0.9	1.8	27.6	1792
4x 50 SM	1.0	1.8	29.5	2013
4x 70 SM	1.1	2.0	34.6	2858
4x 95 SM	1.1	2.1	38.8	3867
4x 120 SM	1.2	2.3	43.1	4857
4x 150 SM	1.4	2.4	47.9	5977
4x 185 SM	1.6	2.6	53.3	7469
4x 240 SM	1.7	2.8	60.2	9723
4x 300 SM	1.8	3.0	66.5	12104

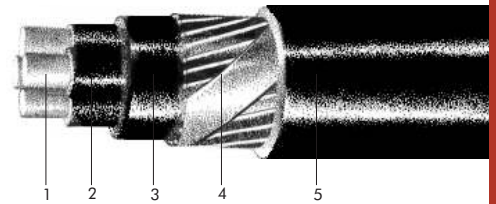
1-Solid/Stranded Circular Conductor 2-XLPE Insulation 3-Halogen Free filler 4-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332

Maximum conductor Temperature 90 C

Cu/XLPE/LSFOH/CWS/LSFOH**IEC 60502-1****Description:**

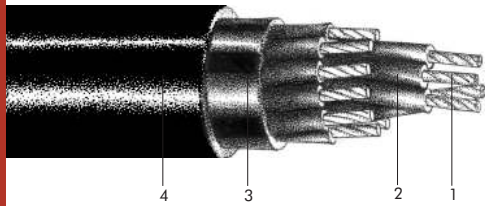
XLPE insulated, four cores + copper screen, halogen free, low smoke, flame retardant power cable



Number of Cores & Cross Section mm ²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
4x1.5 RE/ 1.5 CS	0.7	1.8	14.4	258
4x2.5 RE/ 2.5 CS	0.7	1.8	15.3	315
4x 4 RE/ 4.0 CS	0.7	1.8	16.5	405
4x 6 RE/ 6.0 CS	0.7	1.8	17.7	521
4x 10 RM/ 10 CS	0.7	1.8	21.0	790
4x 16 RM/ 16 CS	0.7	1.8	22.7	1084
4x 25 RM/ 16 CS	0.9	1.8	26.6	1536
4x 35 RM/ 16 CS	0.9	1.8	29.0	1953
4x 50 SM/ 25 CS	1.0	1.9	33.9	2443
4x 70 SM/ 35 CS	1.1	2.1	39.4	3454
4x 95 SM/ 50 CS	1.1	2.2	44.3	4641
4x120 SM/ 70 CS	1.2	2.3	49.4	5883
4x150 SM/ 70 CS	1.4	2.5	54.4	7067
4x185 SM/ 95 CS	1.6	2.7	60.2	8848
4x240 SM/120 CS	1.7	2.9	68.2	11466
4x300 SM/150 CS	1.8	3.1	74.5	14190

1-Solid/Stranded Circular Conductor 2-XLPE Insulation 3-Halogen Free Filler 4-Copper Wire Screen With Helical Copper Tape 5-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332
Maximum conductor Temperature 90 C

**IEC 60502-1****Cu/XLPE/LSFOH/LSFOH****Description:**

XLPE insulated, multi core, halogen free, low smoke, flame retardant control cable

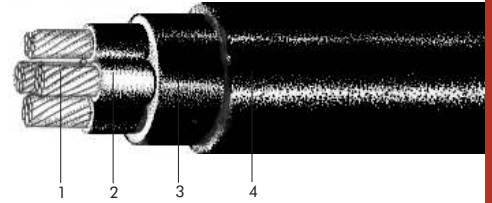
Number of Cores & Cross Section mm ²	Insulation Thickness mm	Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
7 x 1.5 RM	0.7	1.8	13.4	227
10x 1.5 RM	0.7	1.8	16.5	310
12x 1.5 RM	0.7	1.8	17.0	352
14x 1.5 RM	0.7	1.8	17.8	396
19x 1.5 RM	0.7	1.8	19.7	505
24x 1.5 RM	0.7	1.8	22.8	625
30x 1.5 RM	0.7	1.8	24.1	748
7 x 2.5 RM	0.7	1.8	14.6	306
10x 2.5 RM	0.7	1.8	18.1	422
12x 2.5 RM	0.7	1.8	18.7	484
14x 2.5 RM	0.7	1.8	19.6	548
19x 2.5 RM	0.7	1.8	21.7	709
24x 2.5 RM	0.7	1.8	25.2	881
30x 2.5 RM	0.7	1.8	26.6	1064

1-Solid/Stranded Circular Conductor 2-XLPE Insulation 3-Halogen Free filler 4-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332
Maximum conductor Temperature 90 C

Cu/XLPE/LSFOH/LSFOH**IEC 60502-1****Description:**

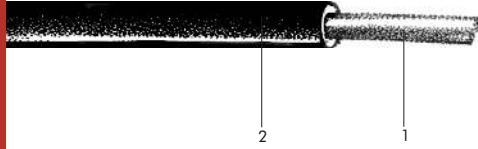
XLPE insulated, 31/2 cores, halogen free, low smoke, flame retardant power cable



Number of Cores & Cross Section mm ²	Insulation Thickness		Sheath Thickness mm	Cable Diameter Approx. mm	Total Weight Approx. kg/km
	PH mm	N mm			
3x 25 + 16 RM	0.9	0.7	1.8	25.2	1300
3x 35 + 16 RM	0.9	0.7	1.8	27.6	1640
3x 50 + 25 SM	1.0	0.9	1.8	29.5	1810
3x 70 + 35 SM	1.1	0.9	2.0	34.6	2552
3x 95 + 50 SM	1.1	1.0	2.1	38.8	3443
3x120 + 70 SM	1.2	1.1	2.3	43.1	4397
3x150 + 70 SM	1.4	1.1	2.4	47.9	5256
3x185 + 95 SM	1.6	1.1	2.6	53.3	6640
3x240 + 120 SM	1.7	1.2	2.8	60.2	8588
3x300 + 150 SM	1.8	1.4	3.0	66.5	10668

1-Solid/Stranded Circular Conductor 2-XLPE Insulation 3-Halogen Free filler 4-Halogen Free Flame Retardant Sheathing

Flame retardant as per IEC 332
Maximum conductor Temperature 90 C



IEC 60227-3

Cu/LSFOH

Description:

Halogen free, low smoke, flame retardant cord

Number of Cores & Cross Section mm ²		Insulation Thickness mm	Outer Diameter Approx. mm	Total Weight Approx. kg/km
1.5	RE	0.7	2.8	20
2.5	RE	0.8	3.4	31
4.0	RE	0.8	3.9	47
6	RE	0.8	4.4	66
10	RM	1.0	6.1	113
16	RM	1.0	7.2	166
25	RM	1.2	8.9	260
35	RM	1.2	10.1	351

1-Solid/Stranded Circular Conductor 2-Halogen Free Flame Retardant Insulation

Flame retardant as per IEC 332
Maximum conductor Temperature 90 C

TECHNICAL DATA



IEC & AWC Abbreviations

Cu	Copper
Al	Aluminium
AA	Aluminium Alloy
TiCu	Tinned Copper
SiCu	Silver Coated copper
RM	Stranded Circular
SM	Shaped Stranded
SE	Shaped Solid
RE	Solid Circular
RF	Flexible Circular
RMS	Stranded Segmental (Milliken)
CTS	Copper Tape Screen
CWS	Copper Wire Screen
CuB	Copper Wire Braided Screen
ICTS	Individual Copper Tape Screen
ICWS	Individual Copper Wire Screen
ISCR	Individual Screen Formed by Polyester + Tinned Drain Wire + Aluminium Backed Polyester + Polyester
ISCRC	Individual Screen Formed by Polyester + Tinned Drain Wire + Copper Backed Polyester + Polyester
OSCR	Overall Screen Formed by Polyester + Tinned Drain Wire + Aluminium Backed Polyester
OSCRC	Overall Screen Formed by Polyester + Tinned Drain Wire + Copper Backed Polyester
TCB	Tinned Copper Wire Braided Screen
CW	Communication Wire
ATA	Double Aluminium Tape Armour
STA	Double Galv. Steel Tape Armour
AWA	Aluminium Wire Armour
AWAT	Aluminium Wire Armour + Counter Helix
SWA	Galv. Steel Wire Armour
SWAT	Galv. Steel Wire Armour + Counter Helix
SSWA	Stainless Steel Wire Armour
DAWA	Double Aluminum Wire Armour
DSWA	Double Galv. Steel Wire Armour
TCWA	Tinned Copper Wire Armour
AWB	Aluminium Wire Braided
SWB	Galv. Steel Wire Braided
BWB	Bronze Wire Braided
SSWB	Stainless Steel Wire Braided
LSh	Lead Sheath
AIPE	Aluminium Copolymer Coated

Bd	Bedding
BT	Brass tape
BHT	Bituminized Hessian Tape
BPT	Bitumen Coated Paper Tape
BdT	Bedding Tape (PVC or PE)
BrT	Bronze Tape
MGT	Mica Glass Tape
PPT	Polypropylene Tape
SCT	Semi Conductive Tape
WBT	Water Blocking Tape
Pet	Polyester Tape (Mylar)
SCWBT	Semi-Conductive Water Blocking Tape
PPY	Polypropylene Yarn
WBY	Water Blocking Yarn
SCYF	Semi-conductive Yarn Filler
GC	Graphite Coating
GFB	Glass Fiber Braided
FPE	Foamed Polyethylene (Cellular)
TPU	Thermoplastic Polyurethane
SC	Ext. Polymer Semi Conductive
TPE	Thermoplastic Elastomer
PVC	Polyvinylchloride
XLPE	Cross Linked Polyethylene
SIR	Silicone Rubber
PE	Polyethylene
EVA	Ethylene Vinyl Acetate
XEVA	Cross Linked EVA
HDPE	High Density Polyethylene
HEPR	Hard Grade Ethylene Propylene Rubber
LDPE	Low Density Polyethylene
MDPE	Medium Density Polyethylene
LSFOH	Low Smoke Flame Retardant Zero Halogen
EPR	Ethylene Propylene Rubber
PVCE	High Temperature PVC (90°C)
PVCH	High temperature Sheathing Compound equal to IEC ST2 ,VDE YM5 (90°C)
APVC	Anti Termite PVC
APVCE	Anti Termite High Temperature PVC (90°C)
APVCH	Anti Termite & High Temperature Sheathing Compound equal to IEC ST2 ,VDE YM5 (90°C)
XPVC	Cross Linked PVC
OPVC	Oil, Acid & Hydrocarbon Resistance Sheathing Compound
OPVCH	Oil Resistant & High Temperature Sheathing Compound equal to IEC ST2 ,VDE YM5 (90°C)

VDE Abbreviations

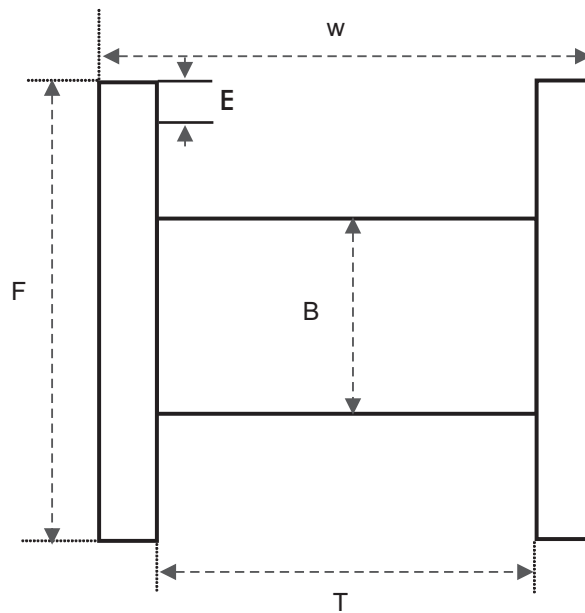
N	DIN VDE standard type
(N)	With reference to DIN VDE standard
A	Aluminium conductor
-	Copper
Y	PVC
2X	Cross-linked PE(VPE)
C	Concentric Cu conductor, in longitudinal twist
CW	Concentric Cu conductor, corrugated
CE	Concentric Cu conductor for individual core
S	Cu shielding
SE	Cu screening per individual core in multi-core cables
H	Conductive layer
(F)	Longitudinally watertight shielding
B	Steel strip reinforcement
F	Flat wire, zinc-plated
G	Counterhelix consisting of zinc-plated steel strip
R	Round-section wire, zinc-plated
A	Protective cover consisting of fiber materials
K	Lead sheath
KL	Aluminium sheath
Y	PVC
2Y	PE
I	With protective conductor
O	Without protective conductor
r...	Round-section conductor
s...	Sector-section conductor
o...	Oval conductor
e...	Single wire conductor
m...	Multi-wire conductor
h...	Hollow conductor
N	Compacted conductor

Max Cable length in meters on standard drums

Drum Sizes														
Cable Dia.mm	6	8	10	12	14	16	18	20	22	24	26	30	Cable Dia.mm	
6	1326	3961											6	
7	975	2910											7	
8	746	2228	4391										8	
9	590	1760	3470										9	
10	478	1426	2810	4566									10	
11	395	1178	2323	3774									11	
12	332	990	1952	3171	4912								12	
13	283	844	1663	2702	4185								13	
14		727	1434	2330	3609	4934							14	
15		634	1249	2029	3144	4298							15	
16		557	1098	1784	2763	3777							16	
17		493	972	1580	2448	3346	4858						17	
18		440	867	1409	2183	2985	4333	4643					18	
19		395	778	1265	1959	2679	3889	4167	4722				19	
20		356	703	1142	1768	2417	3510	3760	4262				20	
21		323	637	1035	1604	2193	3183	3411	3866				21	
22		295	581	943	1461	1998	2901	3108	3522	4815			22	
23		270	531	863	1337	1828	2654	2843	3223	4406			23	
24			488	793	1228	1679	2437	2611	2960	4046			24	
25			450	731	1132	1547	2246	2407	2728	3729			25	
26			416	675	1046	1430	2077	2225	2522	3448			26	
27			386	626	970	1326	1926	2063	2338	3197			27	
28			358	582	902	1233	1791	1919	2174	2973			28	
29			334	543	841	1150	1669	1789	2027	2771	4826		29	
30			312	507	786	1074	1560	1671	1894	2590	4510		30	
31			292	475	736	1006	1461	1565	1774	2425	4224		31	
32			274	446	691	944	1371	1469	1665	2276	3964		32	
33			258	419	650	888	1289	1381	1565	2140	3727	4999	33	
34				395	612	836	1214	1301	1475	2016	3511	4709	34	
35				373	577	789	1146	1228	1392	1903	3313	4444	35	
36				352	546	746	1083	1161	1315	1798	3132	4200	36	
37				334	517	706	1026	1099	1245	1702	2965	3976	37	
38				316	490	670	972	1042	1181	1614	2811	3770	38	
39				300	465	636	923	989	1121	1532	2669	3579	39	
40				285	442	604	877	940	1065	1457	2537	3402	40	
41				272	421	575	835	895	1014	1386	2415	3238	41	
42				259	401	548	796	853	966	1321	2301	3086	42	
43					383	523	759	814	922	1260	2195	2944	43	
44					365	499	725	777	881	1204	2097	2812	44	
45					349	478	693	743	842	1151	2004	2688	45	
46					334	457	663	711	806	1101	1918	2573	46	
47					320	438	636	681	772	1055	1837	2464	47	
48					307	420	609	653	740	1012	1762	2363	48	
49					295	403	585	626	710	971	1691	2267	49	
50					283	387	562	602	682	932	1624	2178	50	
51					272	372	540	578	655	896	1561	2093	51	
52					262	358	519	556	630	862	1501	2013	52	
53					252	344	500	535	607	830	1445	1938	53	
54						332	481	516	585	799	1392	1867	54	
55						320	464	497	564	770	1342	1800	55	
56						308	448	480	544	743	1294	1736	56	
57						298	432	463	525	717	1249	1676	57	
58						287	417	447	507	693	1207	1618	58	
59						278	403	432	490	670	1166	1564	59	
60						269	390	418	474	647	1127	1512	60	
61						260	377	404	458	626	1091	1463	61	
62							252	365	391	443	606	1056	1416	62
63								354	379	430	587	1023	1372	63
64								343	367	416	569	991	1329	64
65								332	356	403	552	961	1288	65
66								322	345	391	535	932	1250	66
67								313	335	380	519	904	1213	67
68								304	325	369	504	878	1177	68
69								295	316	358	490	853	1143	69
70								287	307	348	476	828	1111	70
71								278	298	338	462	805	1080	71
72								271	290	329	450	783	1050	72
73								263	282	320	437	762	1022	73
74								256	275	311	426	741	994	74
75								250	267	303	414	722	968	75
76									260	295	403	703	942	76
77									254	288	393	685	918	77
78										280	383	667	895	78
79										273	373	650	872	79
80										266	364	634	851	80
81										260	355	619	830	81
82										254	347	604	810	82
83											338	589	790	83
84											330	575	772	84
85											323	562	753	85
86											315	549	736	86
87											308	536	719	87
88											301	524	703	88
89											294	512	687	89
90											288	501	672	90
91											281	490	657	91
92											275	480	643	92
93											269	469	629	93
94											264	459	616	94
95											258	450	603	95
96											253	440	591	96
97												431	579	97
98												423	567	98
99												414	555	99
100												406	544	100



Drum size	Flange Dia. F	Barrel Dia. B	Traverse T	Width overall W	Drum weight Kg
6	600	300	400	430	20
8	800	350	520	600	30
10	1000	450	620	700	50
12	1200	600	720	820	70
14	1400	700	790	920	125
16	1600	900	900	1028	175
18	1800	1100	1120	1248	290
20	2000	1200	1120	1248	330
22	2200	1400	1120	1248	450
24	2400	1600	1370	1570	595
26	2600	1600	1700	1900	645
30	3000	2000	1900	2100	770



$$L_T = \frac{\pi NP (B + PD)}{1000}$$

$$P = \frac{F - B - 2E}{2D}$$

$$N = 0.95 \frac{T}{D}$$

L_T = Length of Cable (m)

F = Flange Dia. (mm)

B = Barrel Dia. (mm)

D = Cable Dia. (mm)

T = Traverse (mm)

E = Empty Space (mm)

AC **ABHAR**
CABLE