

Medium Voltage Power Cable Technical Data

IEC60502 is used in the CableApp calculation, which including ambient temperature correction factor and grouping factor.

Base Conditions

The Base conditions for the current ratings in CableApp are as follows

Parameter	Condition
Ambient Air temperature	30°C
Ambient Ground temperature	20°C
Base installation depth (for cables installed in the ground)	1.0m
Base soil resistivity (for cables installed in the ground)	1.5 K.m/W
Thermal resistivity of earthenware ducts	1.2 K.m/W

Current Rating

Current rating please refer to the table at end of this document.

Correction factors

- Temperature factors

The temperature correction factors as below:

Table B.10 – Correction factors for ambient air temperatures other than 30 °C

Maximum conductor temperature °C	Ambient air temperature °C							
	20	25	35	40	45	50	55	60
90	1,08	1,04	0,96	0,91	0,87	0,82	0,76	0,71

Table B.11 – Correction factors for ambient ground temperatures other than 20 °C

Maximum conductor temperature °C	Ambient ground temperature °C							
	10	15	25	30	35	40	45	50
90	1,07	1,04	0,96	0,93	0,89	0,85	0,80	0,76

- **Group factors**

The correction factors for installation conditions and grouping defined in the tables B.18 to B.23 of IEC60502

Correction Factor Type	Correction Table Reference in IEC60502-2(2014)
Correction factors for groups of three-core cables in horizontal formation laid direct in the ground	Table B.18
Correction factors for groups of three-phase circuits of single-core cables laid direct in the ground	Table B.19
Correction factors for groups of three-core cables in single way ducts in horizontal formation	Table B.20
Correction factors for groups of three-phase circuits of single-core cables in single-way ducts	Table B.21
Reductions factors for groups of more than one multi-core cable in air- to be applied to the current-carrying capacity for one multi-core cable in free air	Table B.22
Reductions factors for groups of more than one circuit of single-core cables-To be applied to current-carrying capacity for one circuit of single-core cables in free air	Table B.23

Energy Conscious Solution

The following information provides guidance in energy efficiency, and the calculation method used to provide the **Energy Conscious Solution** in the CableApp.

The calculation requires the end user to define some of the parameters used in the calculation, within the "**settings**" menu of the CableApp.

The potential savings should be considered as guidance only.

According to Joules Law, whenever a conductor carry's current, it will generate heat (thermal energy).

It can be demonstrated that the thermal energy of a cable corresponds to the following general expression:

$$E_p = n \cdot R \cdot I^2 \cdot L \cdot t / 1000$$

Where:

E_p : line energy lost [kWh]

n: number of loaded conductors

R: conductor resistance [Ω /km]

L: line length [km]

I: line current [A]

t: time [h]

If the cable cross section is increased, its conductor resistance will be decreased accordingly. When carrying the same current I (A), there will be a reduction in the energy lost (E_p). Both cost saving in electricity bills and reduction in CO₂ emissions can be benefit from the energy saving.

The cable itself cost will be higher due to the larger size, however the advantages will be:

- Lower running costs, reduced energy bills.
- Reduced CO₂ emissions, therefore an environmentally better proposition.
- Extended design life for the cable because it is operating at a lower temperature. Standard design life is based on the cable being at its maximum load (maximum operating temperature) for every hour of that defined life in years
- Improved short circuit capability - larger cross-sectional areas will carry higher currents in a fault condition.
- Potential to uprate the cable to carry higher loads in the future.

As a rule, cables do not carry the same current (I) continuously. For this reason, it is advisable to consider the mean square value of the current over time or at least to make an estimate.

The CableApp will offer by default the **average usage of load** (I') equal to **75%** of I, but other values can be selected or defined by the user in the "**Settings**" of the CableApp

- 100% I
- 40% I (residential)
- 60% I (public place)
- 75% I (industrial)
- Other %

Thus, the energy saved (EA) by installing conductors of lower resistance (R2) than (R1) will be:

$$EA = n \cdot (R1-R2) \cdot L \cdot I'^2 \cdot t / 1000 \text{ (S2 > S1)}$$

Having calculated the saved energy, the economic savings can be calculated and the savings in CO₂ emissions since we have defined the electricity tariffs (Energy Price) in **CNY/kWh** (in the "**settings**") and the approximate values of CO₂ emissions (A_{CO2}) **kg per kWh** generated taking account of the country's energy mix is defined by the CableApp (note, this value cannot be modified by the user)

Current rating table

Method	Insulator (Max working temp.)	Conductor	Cross-section	Max current intensity
Single core cables Buried direct in the ground - MV	70°C	Cu	35.00	130
Single core cables Buried direct in the ground - MV	70°C	Cu	50.00	153
Single core cables Buried direct in the ground - MV	70°C	Cu	70.00	187
Single core cables Buried direct in the ground - MV	70°C	Cu	95.00	223
Single core cables Buried direct in the ground - MV	70°C	Cu	120.00	253
Single core cables Buried direct in the ground - MV	70°C	Cu	150.00	283
Single core cables Buried direct in the ground - MV	70°C	Cu	185.00	318
Single core cables Buried direct in the ground - MV	70°C	Cu	240.00	368
Single core cables Buried direct in the ground - MV	70°C	Cu	300.00	414
Single core cables Buried direct in the ground - MV	70°C	Cu	400.00	469
Single core cables Buried direct in the ground - MV	70°C	Cu	500.00	528
Single core cables Buried direct in the ground - MV	70°C	Cu	630.00	619
Single core cables Buried direct in the ground - MV	70°C	Cu	800.00	697
Single core cables Buried direct in the ground - MV	70°C	Cu	1000.00	770
Single core cables Buried direct in the ground - MV	70°C	Al	35.00	101
Single core cables Buried direct in the ground - MV	70°C	Al	50.00	119
Single core cables Buried direct in the ground - MV	70°C	Al	70.00	145
Single core cables Buried direct in the ground - MV	70°C	Al	95.00	173
Single core cables Buried direct in the ground - MV	70°C	Al	120.00	196
Single core cables Buried direct in the ground - MV	70°C	Al	150.00	220
Single core cables Buried direct in the ground - MV	70°C	Al	185.00	248
Single core cables Buried direct in the ground - MV	70°C	Al	240.00	288
Single core cables Buried direct in the ground - MV	70°C	Al	300.00	324
Single core cables Buried direct in the ground - MV	70°C	Al	400.00	371
Single core cables Buried direct in the ground - MV	70°C	Al	500.00	423
Single core cables Buried direct in the ground - MV	70°C	Al	630.00	492
Single core cables Buried direct in the ground - MV	70°C	Al	800.00	564
Single core cables Buried direct in the ground - MV	70°C	Al	1000.00	639
Single core cables Buried direct in the ground - MV	90°C	Cu	35.00	161
Single core cables Buried direct in the ground - MV	90°C	Cu	50.00	189
Single core cables Buried direct in the ground - MV	90°C	Cu	70.00	231
Single core cables Buried direct in the ground - MV	90°C	Cu	95.00	275
Single core cables Buried direct in the ground - MV	90°C	Cu	120.00	312
Single core cables Buried direct in the ground - MV	90°C	Cu	150.00	349
Single core cables Buried direct in the ground - MV	90°C	Cu	185.00	393
Single core cables Buried direct in the ground - MV	90°C	Cu	240.00	454
Single core cables Buried direct in the ground - MV	90°C	Cu	300.00	511
Single core cables Buried direct in the ground - MV	90°C	Cu	400.00	579
Single core cables Buried direct in the ground - MV	90°C	Cu	500.00	652
Single core cables Buried direct in the ground - MV	90°C	Cu	630.00	764
Single core cables Buried direct in the ground - MV	90°C	Cu	800.00	860
Single core cables Buried direct in the ground - MV	90°C	Cu	1000.00	951
Single core cables Buried direct in the ground - MV	90°C	Al	35.00	125
Single core cables Buried direct in the ground - MV	90°C	Al	50.00	147

Single core cables Buried direct in the ground - MV	90°C	Al	70.00	179
Single core cables Buried direct in the ground - MV	90°C	Al	95.00	213
Single core cables Buried direct in the ground - MV	90°C	Al	120.00	242
Single core cables Buried direct in the ground - MV	90°C	Al	150.00	271
Single core cables Buried direct in the ground - MV	90°C	Al	185.00	306
Single core cables Buried direct in the ground - MV	90°C	Al	240.00	355
Single core cables Buried direct in the ground - MV	90°C	Al	300.00	400
Single core cables Buried direct in the ground - MV	90°C	Al	400.00	458
Single core cables Buried direct in the ground - MV	90°C	Al	500.00	522
Single core cables Buried direct in the ground - MV	90°C	Al	630.00	608
Single core cables Buried direct in the ground - MV	90°C	Al	800.00	696
Single core cables Buried direct in the ground - MV	90°C	Al	1000.00	789
Single core cables in free air - MV	70°C	Cu	35.00	157
Single core cables in free air - MV	70°C	Cu	50.00	188
Single core cables in free air - MV	70°C	Cu	70.00	236
Single core cables in free air - MV	70°C	Cu	95.00	288
Single core cables in free air - MV	70°C	Cu	120.00	332
Single core cables in free air - MV	70°C	Cu	150.00	378
Single core cables in free air - MV	70°C	Cu	185.00	435
Single core cables in free air - MV	70°C	Cu	240.00	515
Single core cables in free air - MV	70°C	Cu	300.00	590
Single core cables in free air - MV	70°C	Cu	400.00	687
Single core cables in free air - MV	70°C	Cu	500.00	792
Single core cables in free air - MV	70°C	Cu	630.00	955
Single core cables in free air - MV	70°C	Cu	800.00	1106
Single core cables in free air - MV	70°C	Cu	1000.00	1251
Single core cables in free air - MV	70°C	Al	35.00	122
Single core cables in free air - MV	70°C	Al	50.00	146
Single core cables in free air - MV	70°C	Al	70.00	183
Single core cables in free air - MV	70°C	Al	95.00	223
Single core cables in free air - MV	70°C	Al	120.00	258
Single core cables in free air - MV	70°C	Al	150.00	293
Single core cables in free air - MV	70°C	Al	185.00	339
Single core cables in free air - MV	70°C	Al	240.00	402
Single core cables in free air - MV	70°C	Al	300.00	463
Single core cables in free air - MV	70°C	Al	400.00	545
Single core cables in free air - MV	70°C	Al	500.00	638
Single core cables in free air - MV	70°C	Al	630.00	764
Single core cables in free air - MV	70°C	Al	800.00	900
Single core cables in free air - MV	70°C	Al	1000.00	1045
Single core cables in free air - MV	90°C	Cu	35.00	193
Single core cables in free air - MV	90°C	Cu	50.00	232
Single core cables in free air - MV	90°C	Cu	70.00	290
Single core cables in free air - MV	90°C	Cu	95.00	354
Single core cables in free air - MV	90°C	Cu	120.00	409
Single core cables in free air - MV	90°C	Cu	150.00	466
Single core cables in free air - MV	90°C	Cu	185.00	536
Single core cables in free air - MV	90°C	Cu	240.00	635

Single core cables in free air - MV	90°C	Cu	300.00	730
Single core cables in free air - MV	90°C	Cu	400.00	850
Single core cables in free air - MV	90°C	Cu	500.00	983
Single core cables in free air - MV	90°C	Cu	630.00	1183
Single core cables in free air - MV	90°C	Cu	800.00	1373
Single core cables in free air - MV	90°C	Cu	1000.00	1557
Single core cables in free air - MV	90°C	Al	35.00	150
Single core cables in free air - MV	90°C	Al	50.00	180
Single core cables in free air - MV	90°C	Al	70.00	225
Single core cables in free air - MV	90°C	Al	95.00	275
Single core cables in free air - MV	90°C	Al	120.00	318
Single core cables in free air - MV	90°C	Al	150.00	361
Single core cables in free air - MV	90°C	Al	185.00	418
Single core cables in free air - MV	90°C	Al	240.00	496
Single core cables in free air - MV	90°C	Al	300.00	571
Single core cables in free air - MV	90°C	Al	400.00	672
Single core cables in free air - MV	90°C	Al	500.00	788
Single core cables in free air - MV	90°C	Al	630.00	942
Single core cables in free air - MV	90°C	Al	800.00	1110
Single core cables in free air - MV	90°C	Al	1000.00	1290
Single core cables in single way ducts - MV	70°C	Cu	35.00	120
Single core cables in single way ducts - MV	70°C	Cu	50.00	142
Single core cables in single way ducts - MV	70°C	Cu	70.00	173
Single core cables in single way ducts - MV	70°C	Cu	95.00	207
Single core cables in single way ducts - MV	70°C	Cu	120.00	234
Single core cables in single way ducts - MV	70°C	Cu	150.00	263
Single core cables in single way ducts - MV	70°C	Cu	185.00	302
Single core cables in single way ducts - MV	70°C	Cu	240.00	349
Single core cables in single way ducts - MV	70°C	Cu	300.00	393
Single core cables in single way ducts - MV	70°C	Cu	400.00	458
Single core cables in single way ducts - MV	70°C	Cu	500.00	517
Single core cables in single way ducts - MV	70°C	Cu	630.00	605
Single core cables in single way ducts - MV	70°C	Cu	800.00	681
Single core cables in single way ducts - MV	70°C	Cu	1000.00	775
Single core cables in single way ducts - MV	70°C	Al	35.00	93
Single core cables in single way ducts - MV	70°C	Al	50.00	110
Single core cables in single way ducts - MV	70°C	Al	70.00	134
Single core cables in single way ducts - MV	70°C	Al	95.00	161
Single core cables in single way ducts - MV	70°C	Al	120.00	182
Single core cables in single way ducts - MV	70°C	Al	150.00	204
Single core cables in single way ducts - MV	70°C	Al	185.00	235
Single core cables in single way ducts - MV	70°C	Al	240.00	272
Single core cables in single way ducts - MV	70°C	Al	300.00	307
Single core cables in single way ducts - MV	70°C	Al	400.00	363
Single core cables in single way ducts - MV	70°C	Al	500.00	414
Single core cables in single way ducts - MV	70°C	Al	630.00	482
Single core cables in single way ducts - MV	70°C	Al	800.00	551
Single core cables in single way ducts - MV	70°C	Al	1000.00	642

Single core cables in single way ducts - MV	90°C	Cu	35.00	148
Single core cables in single way ducts - MV	90°C	Cu	50.00	175
Single core cables in single way ducts - MV	90°C	Cu	70.00	213
Single core cables in single way ducts - MV	90°C	Cu	95.00	255
Single core cables in single way ducts - MV	90°C	Cu	120.00	289
Single core cables in single way ducts - MV	90°C	Cu	150.00	324
Single core cables in single way ducts - MV	90°C	Cu	185.00	372
Single core cables in single way ducts - MV	90°C	Cu	240.00	430
Single core cables in single way ducts - MV	90°C	Cu	300.00	484
Single core cables in single way ducts - MV	90°C	Cu	400.00	565
Single core cables in single way ducts - MV	90°C	Cu	500.00	637
Single core cables in single way ducts - MV	90°C	Cu	630.00	746
Single core cables in single way ducts - MV	90°C	Cu	800.00	840
Single core cables in single way ducts - MV	90°C	Cu	1000.00	955
Single core cables in single way ducts - MV	90°C	Al	35.00	115
Single core cables in single way ducts - MV	90°C	Al	50.00	136
Single core cables in single way ducts - MV	90°C	Al	70.00	165
Single core cables in single way ducts - MV	90°C	Al	95.00	198
Single core cables in single way ducts - MV	90°C	Al	120.00	225
Single core cables in single way ducts - MV	90°C	Al	150.00	251
Single core cables in single way ducts - MV	90°C	Al	185.00	290
Single core cables in single way ducts - MV	90°C	Al	240.00	336
Single core cables in single way ducts - MV	90°C	Al	300.00	379
Single core cables in single way ducts - MV	90°C	Al	400.00	447
Single core cables in single way ducts - MV	90°C	Al	500.00	511
Single core cables in single way ducts - MV	90°C	Al	630.00	594
Single core cables in single way ducts - MV	90°C	Al	800.00	679
Single core cables in single way ducts - MV	90°C	Al	1000.00	791
three core cables Buried direct in ground - MV	70°C	Cu	35.00	128
three core cables Buried direct in ground - MV	70°C	Cu	50.00	151
three core cables Buried direct in ground - MV	70°C	Cu	70.00	184
three core cables Buried direct in ground - MV	70°C	Cu	95.00	220
three core cables Buried direct in ground - MV	70°C	Cu	120.00	249
three core cables Buried direct in ground - MV	70°C	Cu	150.00	278
three core cables Buried direct in ground - MV	70°C	Cu	185.00	314
three core cables Buried direct in ground - MV	70°C	Cu	240.00	363
three core cables Buried direct in ground - MV	70°C	Cu	300.00	408
three core cables Buried direct in ground - MV	70°C	Cu	400.00	461
three core cables Buried direct in ground - MV	70°C	Cu	500.00	519
three core cables Buried direct in ground - MV	70°C	Cu	630.00	613
three core cables Buried direct in ground - MV	70°C	Al	35.00	99
three core cables Buried direct in ground - MV	70°C	Al	50.00	117
three core cables Buried direct in ground - MV	70°C	Al	70.00	143
three core cables Buried direct in ground - MV	70°C	Al	95.00	170
three core cables Buried direct in ground - MV	70°C	Al	120.00	193
three core cables Buried direct in ground - MV	70°C	Al	150.00	216
three core cables Buried direct in ground - MV	70°C	Al	185.00	245
three core cables Buried direct in ground - MV	70°C	Al	240.00	283

three core cables Buried direct in ground - MV	70°C	Al	300.00	320
three core cables Buried direct in ground - MV	70°C	Al	400.00	366
three core cables Buried direct in ground - MV	70°C	Al	500.00	418
three core cables Buried direct in ground - MV	70°C	Al	630.00	488
three core cables Buried direct in ground - MV	90°C	Cu	35.00	158
three core cables Buried direct in ground - MV	90°C	Cu	50.00	186
three core cables Buried direct in ground - MV	90°C	Cu	70.00	227
three core cables Buried direct in ground - MV	90°C	Cu	95.00	271
three core cables Buried direct in ground - MV	90°C	Cu	120.00	307
three core cables Buried direct in ground - MV	90°C	Cu	150.00	343
three core cables Buried direct in ground - MV	90°C	Cu	185.00	387
three core cables Buried direct in ground - MV	90°C	Cu	240.00	447
three core cables Buried direct in ground - MV	90°C	Cu	300.00	503
three core cables Buried direct in ground - MV	90°C	Cu	400.00	569
three core cables Buried direct in ground - MV	90°C	Cu	500.00	640
three core cables Buried direct in ground - MV	90°C	Cu	630.00	756
three core cables Buried direct in ground - MV	90°C	Al	35.00	122
three core cables Buried direct in ground - MV	90°C	Al	50.00	144
three core cables Buried direct in ground - MV	90°C	Al	70.00	176
three core cables Buried direct in ground - MV	90°C	Al	95.00	210
three core cables Buried direct in ground - MV	90°C	Al	120.00	238
three core cables Buried direct in ground - MV	90°C	Al	150.00	266
three core cables Buried direct in ground - MV	90°C	Al	185.00	302
three core cables Buried direct in ground - MV	90°C	Al	240.00	349
three core cables Buried direct in ground - MV	90°C	Al	300.00	394
three core cables Buried direct in ground - MV	90°C	Al	400.00	451
three core cables Buried direct in ground - MV	90°C	Al	500.00	516
three core cables Buried direct in ground - MV	90°C	Al	630.00	602
three core cables in a buried duct - MV	70°C	Cu	35.00	114
three core cables in a buried duct - MV	70°C	Cu	50.00	134
three core cables in a buried duct - MV	70°C	Cu	70.00	163
three core cables in a buried duct - MV	70°C	Cu	95.00	198
three core cables in a buried duct - MV	70°C	Cu	120.00	225
three core cables in a buried duct - MV	70°C	Cu	150.00	251
three core cables in a buried duct - MV	70°C	Cu	185.00	284
three core cables in a buried duct - MV	70°C	Cu	240.00	333
three core cables in a buried duct - MV	70°C	Cu	300.00	375
three core cables in a buried duct - MV	70°C	Cu	400.00	436
three core cables in a buried duct - MV	70°C	Cu	500.00	490
three core cables in a buried duct - MV	70°C	Cu	630.00	578
three core cables in a buried duct - MV	70°C	Al	35.00	88
three core cables in a buried duct - MV	70°C	Al	50.00	104
three core cables in a buried duct - MV	70°C	Al	70.00	127
three core cables in a buried duct - MV	70°C	Al	95.00	153
three core cables in a buried duct - MV	70°C	Al	120.00	174
three core cables in a buried duct - MV	70°C	Al	150.00	195
three core cables in a buried duct - MV	70°C	Al	185.00	221
three core cables in a buried duct - MV	70°C	Al	240.00	260

three core cables in a buried duct - MV	70°C	Al	300.00	294
three core cables in a buried duct - MV	70°C	Al	400.00	345
three core cables in a buried duct - MV	70°C	Al	500.00	395
three core cables in a buried duct - MV	70°C	Al	630.00	461
three core cables in a buried duct - MV	90°C	Cu	35.00	140
three core cables in a buried duct - MV	90°C	Cu	50.00	165
three core cables in a buried duct - MV	90°C	Cu	70.00	201
three core cables in a buried duct - MV	90°C	Cu	95.00	244
three core cables in a buried duct - MV	90°C	Cu	120.00	277
three core cables in a buried duct - MV	90°C	Cu	150.00	310
three core cables in a buried duct - MV	90°C	Cu	185.00	350
three core cables in a buried duct - MV	90°C	Cu	240.00	411
three core cables in a buried duct - MV	90°C	Cu	300.00	462
three core cables in a buried duct - MV	90°C	Cu	400.00	537
three core cables in a buried duct - MV	90°C	Cu	500.00	604
three core cables in a buried duct - MV	90°C	Cu	630.00	713
three core cables in a buried duct - MV	90°C	Al	35.00	108
three core cables in a buried duct - MV	90°C	Al	50.00	128
three core cables in a buried duct - MV	90°C	Al	70.00	156
three core cables in a buried duct - MV	90°C	Al	95.00	189
three core cables in a buried duct - MV	90°C	Al	120.00	215
three core cables in a buried duct - MV	90°C	Al	150.00	240
three core cables in a buried duct - MV	90°C	Al	185.00	273
three core cables in a buried duct - MV	90°C	Al	240.00	321
three core cables in a buried duct - MV	90°C	Al	300.00	362
three core cables in a buried duct - MV	90°C	Al	400.00	426
three core cables in a buried duct - MV	90°C	Al	500.00	487
three core cables in a buried duct - MV	90°C	Al	630.00	568
three core cables in free air - MV	70°C	Cu	35.00	149
three core cables in free air - MV	70°C	Cu	50.00	178
three core cables in free air - MV	70°C	Cu	70.00	222
three core cables in free air - MV	70°C	Cu	95.00	271
three core cables in free air - MV	70°C	Cu	120.00	311
three core cables in free air - MV	70°C	Cu	150.00	353
three core cables in free air - MV	70°C	Cu	185.00	405
three core cables in free air - MV	70°C	Cu	240.00	477
three core cables in free air - MV	70°C	Cu	300.00	545
three core cables in free air - MV	70°C	Cu	400.00	630
three core cables in free air - MV	70°C	Cu	500.00	723
three core cables in free air - MV	70°C	Cu	630.00	869
three core cables in free air - MV	70°C	Al	35.00	115
three core cables in free air - MV	70°C	Al	50.00	138
three core cables in free air - MV	70°C	Al	70.00	173
three core cables in free air - MV	70°C	Al	95.00	210
three core cables in free air - MV	70°C	Al	120.00	242
three core cables in free air - MV	70°C	Al	150.00	273
three core cables in free air - MV	70°C	Al	185.00	315
three core cables in free air - MV	70°C	Al	240.00	372

three core cables in free air - MV	70°C	Al	300.00	427
three core cables in free air - MV	70°C	Al	400.00	500
three core cables in free air - MV	70°C	Al	500.00	582
three core cables in free air - MV	70°C	Al	630.00	693
three core cables in free air - MV	90°C	Cu	35.00	184
three core cables in free air - MV	90°C	Cu	50.00	220
three core cables in free air - MV	90°C	Cu	70.00	274
three core cables in free air - MV	90°C	Cu	95.00	334
three core cables in free air - MV	90°C	Cu	120.00	384
three core cables in free air - MV	90°C	Cu	150.00	435
three core cables in free air - MV	90°C	Cu	185.00	499
three core cables in free air - MV	90°C	Cu	240.00	588
three core cables in free air - MV	90°C	Cu	300.00	672
three core cables in free air - MV	90°C	Cu	400.00	777
three core cables in free air - MV	90°C	Cu	500.00	891
three core cables in free air - MV	90°C	Cu	630.00	1072
three core cables in free air - MV	90°C	Al	35.00	142
three core cables in free air - MV	90°C	Al	50.00	170
three core cables in free air - MV	90°C	Al	70.00	213
three core cables in free air - MV	90°C	Al	95.00	259
three core cables in free air - MV	90°C	Al	120.00	298
three core cables in free air - MV	90°C	Al	150.00	337
three core cables in free air - MV	90°C	Al	185.00	389
three core cables in free air - MV	90°C	Al	240.00	459
three core cables in free air - MV	90°C	Al	300.00	527
three core cables in free air - MV	90°C	Al	400.00	616
three core cables in free air - MV	90°C	Al	500.00	718
three core cables in free air - MV	90°C	Al	630.00	854
three core cables in tunnel - MV	70°C	Cu	35.00	142
three core cables in tunnel - MV	70°C	Cu	50.00	163
three core cables in tunnel - MV	70°C	Cu	70.00	201
three core cables in tunnel - MV	70°C	Cu	95.00	238
three core cables in tunnel - MV	70°C	Cu	120.00	277
three core cables in tunnel - MV	70°C	Cu	150.00	315
three core cables in tunnel - MV	70°C	Cu	185.00	343
three core cables in tunnel - MV	70°C	Cu	240.00	413
three core cables in tunnel - MV	70°C	Cu	300.00	434
three core cables in tunnel - MV	70°C	Cu	400.00	507
three core cables in tunnel - MV	70°C	Cu	500.00	565
three core cables in tunnel - MV	70°C	Cu	630.00	684
three core cables in tunnel - MV	70°C	Al	35.00	109
three core cables in tunnel - MV	70°C	Al	50.00	126
three core cables in tunnel - MV	70°C	Al	70.00	157
three core cables in tunnel - MV	70°C	Al	95.00	184
three core cables in tunnel - MV	70°C	Al	120.00	215
three core cables in tunnel - MV	70°C	Al	150.00	244
three core cables in tunnel - MV	70°C	Al	185.00	268
three core cables in tunnel - MV	70°C	Al	240.00	322

three core cables in tunnel - MV	70°C	Al	300.00	341
three core cables in tunnel - MV	70°C	Al	400.00	401
three core cables in tunnel - MV	70°C	Al	500.00	456
three core cables in tunnel - MV	70°C	Al	630.00	545
three core cables in tunnel - MV	90°C	Cu	35.00	175
three core cables in tunnel - MV	90°C	Cu	50.00	201
three core cables in tunnel - MV	90°C	Cu	70.00	248
three core cables in tunnel - MV	90°C	Cu	95.00	293
three core cables in tunnel - MV	90°C	Cu	120.00	341
three core cables in tunnel - MV	90°C	Cu	150.00	388
three core cables in tunnel - MV	90°C	Cu	185.00	423
three core cables in tunnel - MV	90°C	Cu	240.00	509
three core cables in tunnel - MV	90°C	Cu	300.00	535
three core cables in tunnel - MV	90°C	Cu	400.00	625
three core cables in tunnel - MV	90°C	Cu	500.00	697
three core cables in tunnel - MV	90°C	Cu	630.00	843
three core cables in tunnel - MV	90°C	Al	35.00	135
three core cables in tunnel - MV	90°C	Al	50.00	155
three core cables in tunnel - MV	90°C	Al	70.00	193
three core cables in tunnel - MV	90°C	Al	95.00	227
three core cables in tunnel - MV	90°C	Al	120.00	265
three core cables in tunnel - MV	90°C	Al	150.00	301
three core cables in tunnel - MV	90°C	Al	185.00	330
three core cables in tunnel - MV	90°C	Al	240.00	397
three core cables in tunnel - MV	90°C	Al	300.00	420
three core cables in tunnel - MV	90°C	Al	400.00	495
three core cables in tunnel - MV	90°C	Al	500.00	562
three core cables in tunnel - MV	90°C	Al	630.00	672