

# 中压力缆的技术数据

CableApp 中的不同温度校正系数和多根电缆运行时的校正系数采用标准 IEC60502。

## 基本条件

CableApp 中给出的载流量基于下面的运行条件

参数	条件
周围环境空气温度	30°C
周围环境土壤温度	20°C
埋地时敷设深度	1.0m
土壤热阻系数	1.5 K.m/W
保护管热阻系数	1.2 K.m/W

## 载流量

本系统中的载流量值请参见本文件末尾的附表

## 校正系数

- 温度校正系数

温度校正系数如下（表 B.10 空气中不同温度的校正系数；表 B.11 土壤中不同温度的校正系数）

**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

- 多根电缆运行校正系数

多根电缆运行时校正系数参见标准 IEC60502 中表 B.18 至表 B.23

校正系数类型	IEC60502-2(2014)中的校正系数参考表
水平直埋多组三芯电缆	Table B.18
单芯电缆用于多组三相电路直埋	Table B.19
多组三芯电缆在保护管中水平敷设	Table B.20
单芯电缆用于多组三相电路在保护管中敷设	Table B.21
多组多芯电缆在空气中敷设	Table B.22
多组单芯电缆在空气中敷设	Table B.23

### 电缆截面的经济选型

以下是根据节能原则，在 CableApp 中进行的经济选型

在计算时需要用户定义一些参数，在 CableApp 的“设置”菜单

潜在的成本节省只作为参考。

根据焦耳定律可知当导体中有电流通过时，导体将会产生热量。

电缆工作时产生的热能计算如下：

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

其中

$E_p$ : 电缆线路能量损耗

$n$ : 线路中的导体数

$R$ : 导体电阻[Ω/km]

$L$ : 线路的长度

$I$ : 线路中的电流[A]

$t$ : 时间[h]

当电缆的截面积增加时,它的导体电阻会减小，如果通过的电流相同，能量损耗将会减小。这样就会节省电费和减少 CO2 的排量。

由于采用大截面积电缆将会导致电缆本身价格贵，但是大截面带来的好处是：

- 电费低从而得到相对低的运行成本

- CO<sub>2</sub> 排量减小，更加环保

- 由于电缆在相对低的温度下运行使用，更好的延长设计使用寿命

标准的设计使用寿命是电缆在最大负荷下运行（最大的运行温度）

- 提高短路电流承受能力-当发生短路时，大截面积的电缆能承受更高的短路电流。
- 电路可以升级运行大负荷负载

当电缆在使用时，通过的电流不是每时每刻都相同的

在 CableApp 中设置的电流默认值是 75%，你可以在“设置”中选择或者定义不同的值

- 100% I 全载运行时的电流
- 40% I 民用
- 60% I 公共场所用电
- 75% I 工业用电
- Other % 其它

由此可以得出当电缆在低电阻运行时，所节省的发热损耗是

$$EA = n \cdot (R1-R2) \cdot L \cdot I^2 \cdot t / 1000 \text{ (S2>S1)}$$

通过节省的能源，根据电价可以算出节省的电费；根据每发一度电产生的 CO2 可以算出节省的 CO2 排放量。

载流量表

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