|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| №/№ пары | A0, дБ/км  fmin=160кГц | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 1 |  | 68.8 | 64.6 | 72.6 | 66.4 | 77.8 | 72.4 | 66 | 71.3 | 68.2 | 85 | 90 | 85.4 | 79.3 | 82.9 | 83.3 | 77.6 | 80.1 | 78.7 | 78.9 |
| 2 |  |  | 69.8 | 76.1 | 67.1 | 73.9 | 82.3 | 65.1 | 76.9 | 80.5 | 79.7 | 74.6 | 80.2 | 77.2 | 81.3 | 86.5 | 72.6 | 76.8 | 74 | 80.1 |
| 3 |  |  |  | 82.4 | 65.5 | 64.5 | 63.4 | 64.1 | 68.7 | 67.6 | 75 | 95 | 84.7 | 80.2 | 84.9 | 87.1 | 81.4 | 82.4 | 79.3 | 74.3 |
| 4 |  |  |  |  | 64.5 | 84.8 | 77.6 | 76.9 | 80.5 | 93.7 | 102.3 | 76.6 | 89.3 | 74.7 | 79.2 | 85.4 | 88.5 | 88.1 | 92.3 | 74.1 |
| 5 |  |  |  |  |  | 73.1 | 77.4 | 78.8 | 79.7 | 84.4 | 76.3 | 78.6 | 99.7 | 83.2 | 83 | 85.5 | 79.6 | 80.3 | 74.7 | 82 |
| 6 |  |  |  |  |  |  | 75.4 | 68.1 | 69.7 | 72.7 | 86.6 | 90.3 | 82.9 | 79.5 | 81.6 | 87.7 | 74.9 | 90.3 | 86 | 77.7 |
| 7 |  |  |  |  |  |  |  | 75.8 | 72.1 | 75.5 | 88.2 | 86.2 | 76.5 | 74.5 | 79.1 | 80 | 80 | 74.4 | 80.3 | 78.5 |
| 8 |  |  |  |  |  |  |  |  | 71.3 | 68.1 | 77.7 | 77.9 | 81.1 | 76.9 | 80.9 | 80.2 | 82.3 | 74.9 | 78 | 77 |
| 9 |  |  |  |  |  |  |  |  |  | 65.5 | 75.9 | 77.4 | 83.9 | 81.6 | 85.1 | 80 | 76.9 | 74 | 75.5 | 73.5 |
| 10 |  |  |  |  |  |  |  |  |  |  | 74.6 | 83.2 | 72.4 | 80.4 | 78.1 | 76.6 | 73.8 | 77.8 | 72.9 | 86 |
| 11 |  |  |  |  |  |  |  |  |  |  |  | 73 | 70.9 | 89.9 | 80.8 | 62.3 | 67.1 | 75.2 | 73.6 | 78.9 |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  | 69.8 | 84.7 | 70.9 | 69 | 84.5 | 67 | 75.5 | 77.8 |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |  | 70.2 | 65.9 | 67.6 | 72.5 | 70.7 | 72.4 | 67.2 |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 73.5 | 76.1 | 70.7 | 83.9 | 78.3 | 85 |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 67.1 | 73.9 | 79.1 | 80.8 | 87.1 |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 67.3 | 70.9 | 73.2 | 70.9 |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 80.7 | 76.9 | 81.4 |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 72.5 | 66.6 |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 88.5 |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| №/№ пары | Rж, Ом/км | | ΔR,Ом | Tиз\*, сек | | Ср, нФ/км |
| 1 | 2 | 1 | 2 |
| 23 | 134.4 | 135 | 0.22 | 68 | 24 | 50.62 |
| 24 | 135.1 | 134.5 | 0.187 | 69 | 24 | 50.71 |
| 25 | 134.6 | 136.2 | 0.591 | 69 | 24 | 50.54 |
| 26 | 134.1 | 135.7 | 0.593 | 68 | 24 | 50.77 |
| 27 | 134.3 | 134.4 | 0.022 | 66 | 24 | 50.44 |
| 28 | 134 | 135.1 | 0.418 | 66 | 24 | 50.67 |
| 29 | 134.7 | 134.3 | 0.165 | 69 | 24 | 50.79 |
| 30 | 133.6 | 134 | 0.111 | 67 | 24 | 50.77 |
| max | 137 | | 0.718 | 70 | | 50.94 |
| сред. | 134.5 | | 0.3 | 45.7 | | 50.7 |
| min | 133.6 | | 0 | 24 | | 50.43 |

\*Tиз - время достижения сопротивления изоляции свыше 5000 МОм/км.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| №/№ пары | Rж, Ом/км | | ΔR,Ом | Tиз\*, сек | | Ср, нФ/км |
| 1 | 2 | 1 | 2 |
| 12 | 134.2 | 133.7 | 0.144 | 66 | 24 | 50.55 |
| 13 | 134.4 | 135.4 | 0.34 | 68 | 24 | 50.54 |
| 14 | 134.9 | 134.2 | 0.264 | 69 | 24 | 50.75 |
| 15 | 134.9 | 136.5 | 0.59 | 66 | 24 | 50.48 |
| 16 | 133.9 | 135.3 | 0.506 | 68 | 24 | 50.52 |
| 17 | 134.1 | 134.1 | 0 | 66 | 24 | 50.43 |
| 18 | 134 | 135.2 | 0.407 | 66 | 24 | 50.55 |
| 19 | 134.7 | 134.2 | 0.187 | 66 | 24 | 50.61 |
| 20 | 133.6 | 134 | 0.177 | 70 | 24 | 50.65 |
| 21 | 134 | 134.4 | 0.132 | 68 | 24 | 50.83 |
| 22 | 134.2 | 133.9 | 0.122 | 70 | 24 | 50.68 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| №/№ пары | Rж, Ом/км | | ΔR,Ом | Tиз\*, сек | | Ср, нФ/км |
| 1 | 2 | 1 | 2 |
| 1 | 134 | 134.5 | 0.199 | 65 | 24 | 50.85 |
| 2 | 134.3 | 133.6 | 0.232 | 66 | 24 | 50.79 |
| 3 | 134.4 | 134.4 | 0.022 | 68 | 24 | 50.79 |
| 4 | 134.7 | 134.3 | 0.132 | 70 | 24 | 50.94 |
| 5 | 135.1 | 137 | 0.718 | 66 | 24 | 50.67 |
| 6 | 134.1 | 135.4 | 0.484 | 68 | 24 | 50.92 |
| 7 | 134.2 | 134.2 | 0.022 | 66 | 24 | 50.62 |
| 8 | 133.9 | 135.4 | 0.539 | 66 | 24 | 50.8 |
| 9 | 134.8 | 134.2 | 0.253 | 66 | 24 | 50.91 |
| 10 | 133.7 | 134 | 0.122 | 69 | 24 | 50.92 |
| 11 | 134 | 134.4 | 0.121 | 68 | 24 | 50.75 |

**ООО «Сарансккабель»**

**ПАСПОРТ КАЧЕСТВА**

|  |  |  |
| --- | --- | --- |
| Марка кабеля: КЦППэпЗ 30х2х0,4-200 (1)  Длина, (м): 823 м  Заказ №  БРУТТО: 227.9 кг | Номер барабана: 9ПП 853 | Тип барабана: 12  Температура: 20 °С  Дата испытания: 27.03.2019 |

Кабель: КЦППэпЗ 30х2х0,4-200 (1) признан годным в соответствии с ТУ 3572-010-05014308-2009

Оператор: \_\_\_\_\_\_\_\_\_\_\_Больгарт О. С.

10.07.2019

Номинальное количество пар: 30

Фактическое количество пар: 30

годных пар: 30

*Значения измеренных параметров вышедшие за установленные нормы выделены* ***жирным*** *шрифтом.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Параметр | Норма | | Единица измерения | Задано, % | Измерено, % |
| min | max |
| Rж | 130 | 148 | Ом/км | 100 | 100 |
| ΔR |  | 2 | Ом | 100 | 100 |
| Tиз |  | 300 | сек | 100 | 100 |
| Ср | 45 | 55 | нФ/км | 100 | 100 |
| A0  fmin=160кГц | 60 |  | дБ/км | 100 | 100 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| №/№ пары | A0, дБ/км  fmin=160кГц | | | | | | | | | |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 19 | 73.1 | 76 | 80.2 | 76.7 | 74.4 | 88.2 | 84.1 | 76.7 | 74.7 | 77.9 |
| 20 | 75.9 | 83.3 | 75.4 | 75.4 | 72.4 | 83.9 | 73.9 | 77.2 | 73.6 | 82.8 |
| 21 |  | 66.3 | 68.8 | 69.9 | 68.9 | 78.7 | 67.7 | 61.6 | 75.6 | 78.6 |
| 22 |  |  | 61 | 86.3 | 62.9 | 74.3 | 85.8 | 69.3 | 79.8 | 89.3 |
| 23 |  |  |  | 69.9 | 68.3 | 76.2 | 70.8 | 69.2 | 71.8 | 80.1 |
| 24 |  |  |  |  | 82.9 | 68.5 | 74.8 | 83.9 | 87.1 | 86.1 |
| 25 |  |  |  |  |  | 72.4 | 78.4 | 93.3 | 81.8 | 90.4 |
| 26 |  |  |  |  |  |  | 71.2 | 75.5 | 72.9 | 81.7 |
| 27 |  |  |  |  |  |  |  | 78 | 77.8 | 79.8 |
| 28 |  |  |  |  |  |  |  |  | 71.6 | 64.4 |
| 29 |  |  |  |  |  |  |  |  |  | 76.2 |
| 30 |  |  |  |  |  |  |  |  |  |  |
| min | 61 | | | | | | | | | |
| средн. | 78.7 | | | | | | | | | |
| max | 102.3 | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| №/№ пары | A0, дБ/км  fmin=160кГц | | | | | | | | | |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 1 | 81.3 | 79.4 | 80.1 | 82.5 | 83.5 | 80.1 | 88.1 | 83.6 | 76.9 | 85.5 |
| 2 | 84.7 | 75 | 70.8 | 81 | 84.8 | 79.1 | 71.4 | 76.7 | 75.9 | 76 |
| 3 | 85.7 | 80.2 | 80.2 | 81.3 | 87.6 | 90.8 | 76 | 76.6 | 78.7 | 79.6 |
| 4 | 84.8 | 83.9 | 94.1 | 75.5 | 78.7 | 77.2 | 76 | 75.6 | 82.2 | 78 |
| 5 | 75.9 | 83.4 | 80.4 | 90.8 | 80 | 82.4 | 76.7 | 80.2 | 83.4 | 77.3 |
| 6 | 81.8 | 94.4 | 87.1 | 89.7 | 81.9 | 81.3 | 78 | 89.3 | 80 | 75 |
| 7 | 77.4 | 72 | 92.2 | 80 | 80.2 | 82.9 | 67.3 | 73.9 | 71.8 | 72.2 |
| 8 | 87.7 | 75.9 | 83.5 | 81.5 | 79.4 | 89.5 | 75.3 | 78.1 | 82.3 | 83 |
| 9 | 80.1 | 74.3 | 79 | 86 | 74.3 | 78.4 | 84.4 | 77.3 | 70.5 | 79.1 |
| 10 | 75 | 77.9 | 81 | 79.4 | 76.9 | 83.8 | 77.5 | 81.5 | 76.3 | 85.1 |
| 11 | 89.2 | 81.7 | 92.4 | 74.9 | 88.2 | 80.6 | 84.5 | 76.6 | 86.4 | 76.3 |
| 12 | 81.3 | 82.1 | 74.4 | 82.3 | 77.1 | 81.8 | 79.2 | 78.1 | 73.1 | 77.1 |
| 13 | 84.8 | 77.3 | 89.9 | 91 | 88.4 | 82 | 82.5 | 82.5 | 77.6 | 76.8 |
| 14 | 79.1 | 81.8 | 87.4 | 97.2 | 73.8 | 90.5 | 92.1 | 80.9 | 82.3 | 80.2 |
| 15 | 92.6 | 74.6 | 80.1 | 78.1 | 75.5 | 75 | 78.6 | 82.9 | 75.6 | 69.7 |
| 16 | 81.4 | 84.1 | 86.6 | 90.3 | 80.3 | 77.6 | 78.5 | 86 | 80.1 | 78.5 |
| 17 | 89.4 | 81.8 | 73.4 | 84.4 | 77.9 | 87.1 | 73.8 | 74.3 | 77 | 83.8 |
| 18 | 84.1 | 81.4 | 86 | 75.3 | 94.7 | 77.1 | 75.5 | 76.2 | 81.2 | 72.5 |