



INDIVIDUAL AND OVERALL SCREENED

EN 50288-7

28 orderable sizes

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|----------------------------|--|---|
| STANDARD EN 50288-7 | VOLTAGE CLASS 300/500 V or 500 V application reference | CONDUCTOR 0.5 mm ² , 0.75 mm ² , 1.0 mm ² , 1.5 mm ² and customer- specified sizes |
| INSULATION / JACKET PVC | CROSS-SECTION RANGE 2 pair to 50 pair available range | |

Construction

- 1 ■ Conductor (per core) – Bare or tinned annealed copper conductor · 1 × Ø1.13 mm · IEC 60228 cl.1
- 2 ■ Pair insulation – XLPE
- 3 ■ Individual screen (IS) – Al/polyester foil + tinned-copper drain
- 4 ■ Filler – Bedding / filler
- 5 ■ Overall screen (OS) – Al/polyester foil + drain
- 6 ■ Sheath – PVC

Size selection — all available cross-sections

| Cable reference | Pair / triple / core layout | Conductor size | Conductor class | Max DC resistance at 20 °C | Mutual capacitance | L/R ratio | OD guide | Weight guide |
|--|-----------------------------|----------------------|---|----------------------------|--------------------|-----------|----------|--------------|
| UEC-EN50288-7-XLPE-PVC-IO5-MULTIPAIR-2PAIR-0P5MM2 2 pair 0.5 mm ² | 2 pair | 0.5 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 39.39 Ω/km | 115 pF/m guide | 25 uH/ohm | 9.1 mm | 90 kg/km |
| UEC-EN50288-7-XLPE-PVC-IO5-MULTIPAIR-2PAIR-0P75MM2 2 pair 0.75 mm ² | 2 pair | 0.75 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 26.8 Ω/km | 115 pF/m guide | 25 uH/ohm | 9.3 mm | 99 kg/km |

| Cable reference | Pair / triple / core layout | Conductor size | Conductor class | Max DC resistance at 20 °C | Mutual capacitance | L/R ratio | OD guide | Weight guide |
|--|-----------------------------|----------------------|---|----------------------------|--------------------|-----------|----------|--------------|
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-2PAIR-1P0MM2 2 pair 1.0 mm ² | 2 pair | 1.0 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 19.7 Ω/km | 115 pF/m guide | 40 uH/ohm | 9.5 mm | 108 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-2PAIR-1P5MM2 2 pair 1.5 mm ² | 2 pair | 1.5 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 13.43 Ω/km | 115 pF/m guide | 40 uH/ohm | 9.7 mm | 126 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-5PAIR-0P5MM2 5 pair 0.5 mm ² | 5 pair | 0.5 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 39.39 Ω/km | 115 pF/m guide | 25 uH/ohm | 10.5 mm | 133 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-5PAIR-0P75MM2 5 pair 0.75 mm ² | 5 pair | 0.75 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 26.8 Ω/km | 115 pF/m guide | 25 uH/ohm | 10.6 mm | 155 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-5PAIR-1P0MM2 5 pair 1.0 mm ² | 5 pair | 1.0 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 19.7 Ω/km | 120 pF/m guide | 40 uH/ohm | 10.8 mm | 177 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-5PAIR-1P5MM2 5 pair 1.5 mm ² | 5 pair | 1.5 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 13.43 Ω/km | 120 pF/m guide | 40 uH/ohm | 11.0 mm | 222 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-10PAIR-0P5MM2 10 pair 0.5 mm ² | 10 pair | 0.5 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 39.39 Ω/km | 115 pF/m guide | 25 uH/ohm | 12.0 mm | 203 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-10PAIR-0P75MM2 10 pair 0.75 mm ² | 10 pair | 0.75 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 26.8 Ω/km | 115 pF/m guide | 25 uH/ohm | 12.1 mm | 248 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-10PAIR-1P0MM2 10 pair 1.0 mm ² | 10 pair | 1.0 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 19.7 Ω/km | 120 pF/m guide | 40 uH/ohm | 12.3 mm | 292 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-10PAIR-1P5MM2 10 pair 1.5 mm ² | 10 pair | 1.5 mm ² | Class 1 (solid) / 2 (stranded) | 13.43 Ω/km | 120 pF/m guide | 40 uH/ohm | 12.5 mm | 381 kg/km |

| Cable reference | Pair / triple / core layout | Conductor size | Conductor class | Max DC resistance at 20 °C | Mutual capacitance | L/R ratio | OD guide | Weight guide |
|--|-----------------------------|----------------------|---|----------------------------|--------------------|-----------|----------|--------------|
| | | | / 5 (flexible) | | | | | |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-15PAIR-0P5MM2 15 pair 0.5 mm ² | 15 pair | 0.5 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 39.39 Ω/km | 115 pF/m guide | 25 uH/ohm | 13.1 mm | 274 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-15PAIR-0P75MM2 15 pair 0.75 mm ² | 15 pair | 0.75 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 26.8 Ω/km | 115 pF/m guide | 25 uH/ohm | 13.3 mm | 340 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-15PAIR-1P0MM2 15 pair 1.0 mm ² | 15 pair | 1.0 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 19.7 Ω/km | 120 pF/m guide | 40 uH/ohm | 13.4 mm | 407 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-15PAIR-1P5MM2 15 pair 1.5 mm ² | 15 pair | 1.5 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 13.43 Ω/km | 120 pF/m guide | 40 uH/ohm | 13.7 mm | 541 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-20PAIR-0P5MM2 20 pair 0.5 mm ² | 20 pair | 0.5 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 39.39 Ω/km | 115 pF/m guide | 25 uH/ohm | 14.1 mm | 344 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-20PAIR-0P75MM2 20 pair 0.75 mm ² | 20 pair | 0.75 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 26.8 Ω/km | 115 pF/m guide | 25 uH/ohm | 14.3 mm | 433 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-20PAIR-1P0MM2 20 pair 1.0 mm ² | 20 pair | 1.0 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 19.7 Ω/km | 120 pF/m guide | 40 uH/ohm | 14.4 mm | 522 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-20PAIR-1P5MM2 20 pair 1.5 mm ² | 20 pair | 1.5 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 13.43 Ω/km | 120 pF/m guide | 40 uH/ohm | 14.7 mm | 700 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-30PAIR-0P5MM2 30 pair 0.5 mm ² | 30 pair | 0.5 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 39.39 Ω/km | 115 pF/m guide | 25 uH/ohm | 15.7 mm | 485 kg/km |

| Cable reference | Pair / triple / core layout | Conductor size | Conductor class | Max DC resistance at 20 °C | Mutual capacitance | L/R ratio | OD guide | Weight guide |
|--|-----------------------------|----------------------|---|----------------------------|--------------------|-----------|----------|--------------|
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-30PAIR-0P75MM2 30 pair 0.75 mm ² | 30 pair | 0.75 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 26.8 Ω/km | 115 pF/m guide | 25 uH/ohm | 15.9 mm | 619 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-30PAIR-1P0MM2 30 pair 1.0 mm ² | 30 pair | 1.0 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 19.7 Ω/km | 120 pF/m guide | 40 uH/ohm | 16.0 mm | 752 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-30PAIR-1P5MM2 30 pair 1.5 mm ² | 30 pair | 1.5 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 13.43 Ω/km | 120 pF/m guide | 40 uH/ohm | 16.3 mm | 1019 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-50PAIR-0P5MM2 50 pair 0.5 mm ² | 50 pair | 0.5 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 39.39 Ω/km | 115 pF/m guide | 25 uH/ohm | 18.3 mm | 767 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-50PAIR-0P75MM2 50 pair 0.75 mm ² | 50 pair | 0.75 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 26.8 Ω/km | 115 pF/m guide | 25 uH/ohm | 18.5 mm | 990 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-50PAIR-1P0MM2 50 pair 1.0 mm ² | 50 pair | 1.0 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 19.7 Ω/km | 120 pF/m guide | 40 uH/ohm | 18.6 mm | 1212 kg/km |
| UEC-EN50288-7-XLPE-PVC-IOS-MULTIPAIR-50PAIR-1P5MM2 50 pair 1.5 mm ² | 50 pair | 1.5 mm ² | Class 1 (solid) / 2 (stranded) / 5 (flexible) | 13.43 Ω/km | 120 pF/m guide | 40 uH/ohm | 18.9 mm | 1657 kg/km |