



CABLE STRUCTURE

| | |
|-------------------|---|
| Conductors | Electrolytic, stranded, plain annealed copper wire Class 5 according to IEC 60228 |
| Insulation Lay Up | All cores are insulated with XLPE (Cross Linked Polyethylene) Central aramid (kevlar) strength member, cores laid up in concentric layers with shorth length of lay |
| Inner Sheath | Special extruded Polyurethane compound |
| Outer Sheath | Special extruded Polyurethane compound |
| Color | Yellow, black or orange |

STANDARDS & MAIN CHARACTERISTICS

| | |
|----------------------|---|
| Construction | Generally to IEC 60502 |
| General Requirements | DIN VDE 0250-1 and IEC 60502 |
| Flame Retardant | IEC 60332-1 |
| Oil Resistant | HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1 |

OPERATING CHARACTERISTICS

| | |
|-------------------------------------|---|
| Rated Voltage | 0,6 / 1 kV |
| Max. Operating Ac Voltage | 0,7 / 1,2 kV |
| Max. Operating Dc Voltage | 0,9 / 1,8 kV |
| Ac Test Voltage | 3,5 kV |
| Min Bending Radius | 6 x D (fixed application) 8 x D (mobile application) |
| Current Carrying Capacity | VDE 0298 - 4 |
| Working Temperature | |
| Fixed | - 40 °C up to + 80 °C |
| Mobile | - 30 °C up to + 80 °C |
| Conductor Operating Temperature | + 90 °C |
| Conductor Short Circuit Temperature | + 250 °C |
| Max. Tensile Load On Conductor | 15 N/mm ² |
| Max. Torsion | ±25°/m |
| Travel Speed | |
| In Festoon Systems | Up to 200 m / min |
| In Reeling Application | Up to 60 m / min horizontal |



Application

For use as energy and control cable in festoon systems and drag chain systems. Unflex M'PUR cables can be used as power supply connections to all types of mobile equipment used in applications in harsh working environments - ergonomic handling systems. The special polyurethane compound jacket offers a very good protection against hydrolysis and oil.



| Cross Section (mm ²) | Overall Diameter Min. - Max. (mm) | Approximate Weight (kg / km) |
|-------------------------------------|---|---------------------------------|
| 4 x 16 | 20,00 ± 1,50 | 875 |
| 3 x 25 + 3G6 + 2 x 1,5 | 25,00 ± 1,50 | 1250 |
| 3 x 35 + 3G6 + 2 x 1,5 | 27,30 ± 1,50 | 1600 |
| 3 x 50 + 3G10 + 2 x 1,5 | 31,50 ± 2,0 | 2200 |
| 3 x 70 + 3G16 + 2 x 1,5 | 36,50 ± 2,0 | 3000 |
| 3 x 95 + 3G16 + 2 x 1,5 | 40,50 ± 2,5 | 3750 |
| 3 x 120 + 3G25 + 2 x 1,5 | 44,50 ± 2,5 | 4800 |
| 3 x 150 + 3G25 + 2 x 1,5 | 51,50 ± 2,5 | 5750 |
| 3 x 185 + 3G50 + 2 x 1,5 | 56,50 ± 2,5 | 7300 |
| 3 x 240 + 3G35 + 2 x 1,5 | 61,50 ± 2,5 | 8950 |