



## Application

- Due to its flexible construction, could be used in narrow spaces.
- At instrumentation and control engineering.
- At industrial electronics.
- As a measurement and control cable in machinery.
- In production and assembly lines.
- Wet, dry and moist places.
- For applications with medium level mechanical stress.
- Fuel oil pumps.

## Cable Construction

- 1 - Conductor : Stranded electrolytic annealed copper conductor (Class 5) (IEC 60228, EN 60228, DIN VDE 0295)
- 2 - Insulation : Halogen-free (DIN VDE 0207, EN50363-3, TS EN 50290-2-26 TI2), (DIN VDE 0293, TS EN 50334)
- 3 - Stranding : In layers
- 4 - Wrapping : Polyester tape
- 5 - Screen : Al/PET tape, Tinned copper braiding
- 6 - Outer Jacket : UV resistant halogen-free outer jacket (EN 50290-2-27, DIN VDE 207 TM2). RAL 7001 (Dark Grey)

## Technical Characteristics

| Cross Section         | Conductor Resistance<br>$\Omega/\text{km}$<br>(20 °C) | Insulation Resistance<br>$\text{M } \Omega/\text{km}$<br>(20 °C) | Current Carrying Capacity<br>A | Operating Voltage<br>V DC | Test Voltage<br>V (DC, 1 minute) |
|-----------------------|-------------------------------------------------------|------------------------------------------------------------------|--------------------------------|---------------------------|----------------------------------|
| 0.50 mm <sup>2</sup>  | 39.0                                                  | 20                                                               | 9                              | 2000                      | 300/500                          |
| 0.75 mm <sup>2</sup>  | 26.0                                                  | 20                                                               | 12                             | 2000                      | 300/500                          |
| 1.00 mm <sup>2</sup>  | 19.5                                                  | 20                                                               | 15                             | 2000                      | 300/500                          |
| 1.50 mm <sup>2</sup>  | 13.3                                                  | 20                                                               | 18                             | 2000                      | 300/500                          |
| 2.50 mm <sup>2</sup>  | 7.98                                                  | 20                                                               | 26                             | 2000                      | 300/500                          |
| 4.00 mm <sup>2</sup>  | 4.95                                                  | 20                                                               | 34                             | 2000                      | 300/500                          |
| 6.00 mm <sup>2</sup>  | 3.30                                                  | 20                                                               | 44                             | 2000                      | 300/500                          |
| 10.00 mm <sup>2</sup> | 1.91                                                  | 20                                                               | 61                             | 2000                      | 300/500                          |
| 16.00 mm <sup>2</sup> | 1.21                                                  | 20                                                               | 82                             | 2000                      | 300/500                          |

## Mechanical Characteristics

| Bending Radius | Temperature Range<br>Operating |
|----------------|--------------------------------|
| 10xD mm        | -30°C ~ +70°C                  |

## Standards

| Smoke Density Test                             | Corrosive Gas Test                                | Flame Propagation Test                                 | Flame Retardancy Test                               |
|------------------------------------------------|---------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------|
| IEC 61034-2,<br>VDE 0482-1034-2,<br>EN 61034-2 | IEC 60754-2,<br>VDE 0482-267-2-3,<br>EN 50267-2-3 | IEC 60332-3-24,<br>VDE 0482-332-3-24,<br>EN 60332-2-24 | IEC 60332-1-2,<br>VDE 0482-332-1-2,<br>EN 60332-1-2 |

## Notes

Electromagnetic compatibility (EMC)  
Color code could be JZ, OZ, JB, OB according to customer demand.  
For cables with two cores, Yellow/Green earthing wire is not included.  
Reference Standard: DIN EN 50525-2-51, VDE 0285-525-2-51

## FLEX-(St)CH-OZ

| Part Number | Conductor Count | Conductor Diameter (mm <sup>2</sup> ) | Approx. Cable Diameter (mm) | Copper Weight (kg/km) | Approx. Weight (kg/km) | Packing Lengths (m) |
|-------------|-----------------|---------------------------------------|-----------------------------|-----------------------|------------------------|---------------------|
| 244030075OZ | 3               | 0.75                                  | 6.3                         | 29.5                  | 62                     | 100/500/1000        |
| 244040075OZ | 4               | 0.75                                  | 6.9                         | 37.5                  | 77                     | 100/500/1000        |
| 244050075OZ | 5               | 0.75                                  | 7.5                         | 44.8                  | 90                     | 100/500/1000        |

Country of Origin: Turkey

Custom code: 85444995