

CABLES SELECTION CHART ACCORDING TO EN 60598-1 FOR SMALL - FIX AND PORTABLE - LED SIGNS

WARNINGS: the choice of cables is up to the designer of the appliance, based on the intended use of the same; what is reported below has to be considered purely indicative and does not intend, in any way, to replace Laws, Codes, Standards and / or Regulations. The examples of use, the types of cables, as well as any other information contained therein are purely informative. Cross section of wires shall be selected according to the current of the electric load. For sake of brevity, the list of cables, as well as the examples of use and any other information are not exhaustive. Always refer to the respective Standards and Codes (e.g. CENELEC HD 22.4, EN 50525-2-11, EN 60598-1, EN 50107-3 etc.). The definitions (Class I and II, Rough Service, etc.) are understood in the sense reported by the Standards in force; "indoor use" means within rooms, enclosures, ducts, sheaths, etc.

| PVC CABLES | ISULATION: U ₀ to hearth U btw cables | WORKING TEMPERATURE | EXAMPLES OF USE | TYPE OF APPLIANCE | MAINS TO DRIVER | DRIVER TO LED | INDOOR USE | OUTDOOR USE | TORSION BENDING | IMPACT VIBRATION | CORROSIVE ELEMENTS | BENDING RADIUS | MARKING | |
|------------------------|---|--|--|---------------------------------|--------------------|------------------|---------------|----------------------------|--------------------|---------------------|-----------------------|---------------------------------------|--|--|
| H03VV-F Round | U ₀ = 300 V | 60°C | Use in domestic premises and offices, for light duty applications such as household appliances and luminaires or signs. Not suitable to be used in workshop or outdoor. | Ordinary Class I Class II | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ | ✗ | 6 x OD | Manufacturer - Cable code Quality Mark - HAR - Made in EU. <n° wires x section> <year> | |
| H03VVH2-F Flat Twin | U = 300 V | | | | | | | | Torsion ✗ | | | | | |
| H05VV-F Round | U ₀ = 300 V | 60°C | Use in domestic premises and offices, for ordinary duty applications and household appliances, including damp premises; outdoor use permitted only for short periods. | Ordinary Class I Class II | ✓ | ✓ | ✓ | Temporary Use only ✗ | ✓ | ✗ | ✗ | 6 x OD | | |
| H05VVH2-F Flat Twin | U = 500 V | | | | | | | | Torsion ✗ | | | | | |
| H07VV-F | U ₀ = 450 V U = 750 V | 70°C | Use in domestic premises and offices, for ordinary duty and supplying appliances in ducts such as luminaires for outdoor use. | Ordinary Class I Class II | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | 6 x OD | | |
| RUBBER CABLES | INSULATION: U ₀ to hearth U btw cables | WORKING TEMPERATURE | EXAMPLES OF USE | TYPE OF APPLIANCE | MAINS TO DRIVER | DRIVER TO LED | INDOOR USE | OUTDOOR USE | TORSION BENDING | IMPACT VIBRATION | CORROSIVE ELEMENTS | BENDING RADIUS | | MARKING |
| H05RN-F | U ₀ = 300 V U = 500 V | 60°C | Use in domestic premises and offices, for ordinary duty applications and appliances where cables are subject to low mechanical stresses (e.g. appliances, small domestic portable tools, luminaire). Not suitable to be buried. | Other than ordinary | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | 3 x OD fixed 6 x OD portable | | Manufacturer - Cable code Quality Mark - HAR - Made in EU. <n° wires x section> <year> |
| H07RN-F | U ₀ = 450 V U = 750 V | 60° C 85° or steady and protected installations | Use in industrial workshops, building sites, for heavy duty applications and appliances where cables are subject to medium mechanical stresses (e.g. inspection lamps, electric tools); use in dry, humid or moist rooms; fixed installations e.g. on rough-cast in temporary buildings and huts for accommodation purposes. | Rough Service | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 4 x OD fixed 6 x OD portable | | |

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