



## H05V2V2-F



Date reviewed : 22/04/2015

Revision Number: 5

Multicore PVC insulated cables

Ordinary duty heat-resistant PVC sheathed cable for maximum conductor temperature of 90° C.

### Technical data

|                             |                                                                                                                                                                                                                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage U <sub>0</sub> / U  | 300/500 V                                                                                                                                                                                                                                                                                         |
| Normative references        | CEI EN 50525-2-11                                                                                                                                                                                                                                                                                 |
| Applications / Terms of use | Use in domestic premises and offices, for ordinary duty applications and household appliances, including in damp premises; use in high ambient temperatures and internal use in equipment where there is no risk of contact with hot parts; use outdoors for temporary periods of short duration. |
| Type electric conductor     | Flexible red copper                                                                                                                                                                                                                                                                               |
| Type of insulation          | TI3                                                                                                                                                                                                                                                                                               |
| Type Outer Sheath           | TM3                                                                                                                                                                                                                                                                                               |
| Sheath color                | Black, white, grey                                                                                                                                                                                                                                                                                |
| Operating temperature       | 90° C on the conductor                                                                                                                                                                                                                                                                            |
| Short circuit temperature   | 150° C on the conductor max 5 seconds                                                                                                                                                                                                                                                             |
| Cable marking               | ELETTROBRESCHIA IEMMEQU H05V2V2-F                                                                                                                                                                                                                                                                 |
| Minimum bending radius      | 5 times the max outer diameter for mobile service, 3 times for fixed installation.                                                                                                                                                                                                                |
| Insulation Color 2 x        | Blue- Brown                                                                                                                                                                                                                                                                                       |
| Insulation Color 3 x        | Yellow/Green-Blue-Brown                                                                                                                                                                                                                                                                           |
| Insulation Color 4 x        | Yellow/Green-Blue-Brown-Black / Yellow/Green-Brown-Black-Grey                                                                                                                                                                                                                                     |
| Insulation Color 5 x        | Yellow/Green-Blue-Brown-Black-Grey                                                                                                                                                                                                                                                                |

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| Section (mm²) | Diameter capillary (mm) | Wire size (mm) | Average thickness of insulation (mm) | Average thickness sheath (mm) | Minimum outside diameter (mm) | Maximum outside diameter (mm) | Electrical resistance (MΩ·km a 20°C) | Average weight (kg/km) | Factor cu (kg/km) |
|---------------|-------------------------|----------------|--------------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------------|------------------------|-------------------|
| 2x0,75        | 0,21                    | 1,10           | 0,6                                  | 0,80                          | 5,7                           | 7,2                           | 26,0000                              | 59,00                  | 14,40             |
| 2x1,00        | 0,21                    | 1,20           | 0,6                                  | 0,80                          | 5,9                           | 7,5                           | 19,5000                              | 67,00                  | 19,20             |
| 2x1,50        | 0,26                    | 1,50           | 0,7                                  | 0,80                          | 6,8                           | 8,6                           | 13,3000                              | 91,00                  | 28,80             |
| 2x2,50        | 0,26                    | 1,90           | 0,8                                  | 1,00                          | 8,4                           | 10,6                          | 7,9800                               | 139,00                 | 48,00             |
| 2x4,00        | 0,31                    | 2,40           | 0,8                                  | 1,10                          | 9,7                           | 12,1                          | 4,9500                               | 159,00                 | 76,80             |
| 3G0,75        | 0,21                    | 1,10           | 0,6                                  | 0,80                          | 6,0                           | 7,6                           | 26,0000                              | 71,00                  | 21,60             |
| 3G1,00        | 0,21                    | 1,20           | 0,6                                  | 0,80                          | 6,3                           | 8,0                           | 19,5000                              | 83,00                  | 28,80             |
| 3G1,50        | 0,26                    | 1,50           | 0,7                                  | 0,90                          | 7,4                           | 9,4                           | 13,3000                              | 114,00                 | 43,20             |
| 3G2,50        | 0,26                    | 1,90           | 0,8                                  | 1,10                          | 9,2                           | 11,4                          | 7,9800                               | 175,00                 | 72,00             |
| 3G4,00        | 0,31                    | 2,40           | 0,8                                  | 1,20                          | 10,5                          | 13,1                          | 4,9500                               | 244,00                 | 115,20            |
| 4G0,75        | 0,21                    | 1,10           | 0,6                                  | 0,80                          | 6,6                           | 8,3                           | 26,0000                              | 88,00                  | 28,80             |
| 4G1,00        | 0,21                    | 1,20           | 0,6                                  | 0,90                          | 7,1                           | 9,0                           | 19,5000                              | 104,00                 | 38,40             |
| 4G1,50        | 0,26                    | 1,50           | 0,7                                  | 1,00                          | 8,4                           | 10,5                          | 13,3000                              | 146,00                 | 57,60             |
| 4G2,50        | 0,26                    | 1,90           | 0,8                                  | 1,10                          | 10,1                          | 12,5                          | 7,9800                               | 217,00                 | 96,00             |
| 4G4,00        | 0,31                    | 2,40           | 0,8                                  | 1,20                          | 11,5                          | 14,3                          | 4,9500                               | 305,00                 | 153,60            |
| 5G0,75        | 0,21                    | 1,10           | 0,6                                  | 0,90                          | 7,4                           | 9,3                           | 26,0000                              | 114,00                 | 36,00             |
| 5G1,00        | 0,21                    | 1,20           | 0,6                                  | 0,90                          | 7,8                           | 9,8                           | 19,5000                              | 131,00                 | 48,00             |
| 5G1,50        | 0,26                    | 1,50           | 0,7                                  | 1,10                          | 9,3                           | 11,6                          | 13,3000                              | 188,00                 | 72,00             |
| 5G2,50        | 0,26                    | 1,90           | 0,8                                  | 1,20                          | 11,2                          | 13,9                          | 7,9800                               | 276,00                 | 120,00            |
| 5G4,00        | 0,31                    | 2,40           | 0,8                                  | 1,40                          | 13,0                          | 16,1                          | 4,9500                               | 398,00                 | 192,00            |