



1. Solid or Stranded Copper Conductor
2. XLPE Insulation
3. PVC Filler or PP Foam Tape
4. Copper Tape + Copper Wire Screen
5. PVC Outer Sheath

Application

Electricity supply in low voltage installation systems, in dry and wet areas, permanent outdoor installation, direct buried or in cable ducts.

Basic Data

Applied Standards	: IEC 60502-1 and HF603 S1/A3
Voltage Rate	: 0,6/1 kV
Conductor Type	: Round solid Copper acc.to IEC 60228 , Class 1 for sections $\leq 10 \text{ mm}^2$ Round stranded Copper acc.to IEC 60228 , Class 2 for sections $> 10 \text{ mm}^2$
Type of Insulation Material	: XLPE acc. to IEC 60502-1
Insulation Colour	: 2 Cores = Blue-Brown 3 Cores = Brown-Black-Grey 4 Cores = Blue-Brown-Black-Grey 4 cores: acc. to HD 308 S2 without PE core A green/yellow PE core may be applied on demand. > 4 cores: black cores numbered 1 to n (n=number of cores)
Inner Sheath	: Extruded PVC for cables up to 5 cores, Polypropylene foam tape with 6 cores and more
Screen	: 1 layer of bare copper tape (nominal thickness 0,1 mm) applied helically with overlap in combination with a bare copper wire braid.
Type of Sheath Material	: PVC type ST2 acc. To IEC 60502-1
Sheath Colour	: Black
Max. Continuous Conductor Temp.	: 90 °C
Max. Short Circuit Temp.	: 250 °C
Test Voltage (AC)	: 3.5 kV/5 min core/core and core/screen.
Min. Laying Temperature	: -5 °C
Min. Bending Radius	: 12 x D (D = cable outer- $\varnothing$)
Admissible Pulling Force	$P_{\text{max}} = A \times 50 \text{ N/mm}^2$ (exerted on the conductors.) (A = cross-section of all conductors in mm^2)
Transfer Impedance	: max. 5 m Ω /m up to 10 MHz max. 30 m Ω /m up to 100 MHz Test method IEC 62153-4-3
Flame Test	: IEC 60332-1
UV Resistance	: EN 50289-4-17 Method A (720 h exposure time)
CPR	: EN50575:20mEca

Marking

Hans Følsgaard /AS 0,6/1 kV cable dimensions IEC 60502-1
+ year of manufacture + length marking
e.g: 4x4/8

Technical Features										
<i>Cable / Screen Section</i>	<i>Overall Diameter of Cable</i>	<i>Conductor Diameter</i>	<i>Thickness of Insulation (Nom.)</i>	<i>Core Diameter</i>	<i>Diameter Over Screen</i>	<i>Thickness of Outer Sheath (nom.)</i>	<i>Conductor DC. Resistance at (20 ° C) (max.)</i>	<i>Screen DC Resistance at (20°C) (max.)</i>	<i>Cable Weight</i>	<i>Cu Factor (Conductor/Screen)</i>
mm ²	mm	mm	mm	mm	mm	m	Ω/km	Ω/km	kg/km	kg/km
4x2,5/6 re	13,50	1,75	0,70	3,20	10,70	1,80	7,41	3,08	350	87 / 80
4x4/8 re	14,70	2,20	0,70	3,60	11,70	1,80	4,61	2,20	450	141 / 95
4x6/8 re	16,30	2,70	0,70	4,10	13,10	1,80	3,08	2,20	570	211 / 98
4x10/8 re	18,20	3,50	0,70	4,90	15,00	1,80	1,83	2,20	760	348 / 99
4x16/10 rm	21,80	4,80	0,70	6,20	18,40	1,80	1,15	1,83	1100	562 / 119
4x25/16 rm	25,80	6,00	0,90	7,80	22,20	1,80	0,727	1,15	1660	884/169
4x35/16 rm	28,60	7,00	0,90	8,80	24,80	1,90	0,524	1,15	2140	1264/170
7x1,5/6 re	12,30	1,35	0,70	2,80	9,50	1,40	12,1	3,08	280	93/76
7x2,5/8 re	13,50	1,75	0,70	3,20	10,70	1,80	7,41	2,20	370	151 / 92
10x2,5/8 re	16,90	1,75	0,70	3,20	13,90	1,80	7,41	2,20	490	216 / 95
14x2,5/8 re	18,50	1,75	0,70	3,20	15,30	1,80	7,41	2,20	620	302 / 98
19x2,5/8 re	20,40	1,75	0,70	3,20	17,00	1,80	7,41	2,20	780	410 / 96
27x2,5/10 re	24,30	1,75	0,70	3,20	20,70	1,80	7,41	1,83	1050	582 / 114
37x2,5/10 re	27,00	1,75	0,70	3,20	23,40	1,80	7,41	1,83	1350	798 / 110
"Unless otherwise specified core colours will be as below."										