



## FR2XOHR

### Application and Description

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These cables are suitable for installation in wet environments and with fire protection necessities, total screen guarantee protection against electromagnetic interferences (Red copper screen)

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### Standard and Approval

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CEI 20-11, CEI 20-22/2, CEI 20-29, CEI 20-35 (EN60332-1), CEI 20-37 pt.1(EN50267)

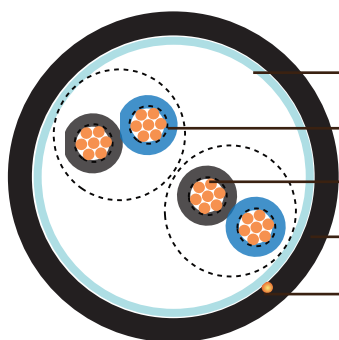
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### Cable Construction

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- Flexible tinned copper strands
  - Strands to VDE-0295 Class-5, IEC 60228 Class-5, CEI 20-29 Class-5,
  - PVC Insulation compound type R2 according to CEI 20-11
  - Core identification:PAIR- blue-black, with black progressively numbered.  
TRIAD- blue-brown-black, with black progressively numbered
  - Cores twisted in pairs-triads, pairs-triads twisted in concentric layers
  - Aluminium/Polyester tape screen with 7x0.3mm tinned copper drain wire
  - PVC outer sheath compound type Rz according to CEI 20-11
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### Technical Characteristics

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- Working voltage:300/500V 450/750V
  - Test voltage: 2000V (300/500V ) / 4000V (450/750V)
  - Min. bending radius: 10 x Ø
  - Flexing temperature: 0° C to +70° C
  - Static temperature: -30° C to +70° C
  - Short circuit temperature: +160° C
  - Fire performance IEC 60332.1, IEC 60332-3A
  - Low smoke emission IEC 60754-1
  - Insulation resistance: 10 MΩ x km
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Aluminium/polyester tape screen

PVC insulation

Tinned copper conductor

PVC compound outer sheath

Tinned copper drain wire

### Cable Parameter

#### Pair

AWG	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Nominal Overall Diameter mm	AWG	No. of Cores Nominal Cross Sectional Area # x mm <sup>2</sup>	Nominal Overall Diameter mm
450/750V			300/500V		
20(16/32)	2 x 0.50	6.65	20(16/32)	2 x 0.50	5.85
20(16/32)	4 x 0.50	7.59	20(16/32)	4 x 0.50	6.63
20(16/32)	6 x 0.50	8.95	20(16/32)	6 x 0.50	7.75
20(16/32)	12 x 0.50	12.00	20(16/32)	12 x 0.50	9.94
20(16/32)	18 x 0.50	13.95	20(16/32)	18 x 0.50	11.95
20(16/32)	24 x 0.50	16.45	20(16/32)	24 x 0.50	13.85
20(16/32)	30 x 0.50	17.39	20(16/32)	30 x 0.50	14.63
20(16/32)	48 x 0.50	21.80	20(16/32)	48 x 0.50	18.34
18(24/32)	2 x 0.75	7.05	18(24/32)	2 x 0.75	6.25
18(24/32)	4 x 0.75	8.08	18(24/32)	4 x 0.75	7.11
18(24/32)	6 x 0.75	9.55	18(24/32)	6 x 0.75	8.35
18(24/32)	12 x 0.75	12.83	18(24/32)	12 x 0.75	10.77
18(24/32)	18 x 0.75	14.95	18(24/32)	18 x 0.75	12.95
18(24/32)	24 x 0.75	17.85	18(24/32)	24 x 0.75	15.05
18(24/32)	30 x 0.75	18.88	18(24/32)	30 x 0.75	16.11
18(24/32)	48 x 0.75	23.63	18(24/32)	48 x 0.75	20.17
17(32/32)	2 x 1.00	7.45	17(32/32)	2 x 1.00	7.05
17(32/32)	4 x 1.00	8.56	17(32/32)	4 x 1.00	8.08
17(32/32)	6 x 1.00	10.15	17(32/32)	6 x 1.00	9.55
17(32/32)	12 x 1.00	13.66	17(32/32)	12 x 1.00	12.83
17(32/32)	18 x 1.00	16.15	17(32/32)	18 x 1.00	14.95
17(32/32)	24 x 1.00	19.05	17(32/32)	24 x 1.00	17.85
17(32/32)	30 x 1.00	20.36	17(32/32)	30 x 1.00	18.88
17(32/32)	48 x 1.00	25.66	17(32/32)	48 x 1.00	23.63



## Italian Standard

AWG	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Nominal Overall Diameter mm	AWG	No. of Cores Nominal Cross Sectional Area # x mm <sup>2</sup>	Nominal Overall Diameter mm
16(30/30)	2 x 1.50	8.05	16(30/30)	2 x 1.50	7.65
16(30/30)	4 x 1.50	9.28	16(30/30)	4 x 1.50	8.80
16(30/30)	6 x 1.50	11.45	16(30/30)	6 x 1.50	10.45
16(30/30)	12 x 1.50	14.90	16(30/30)	12 x 1.50	14.07
16(30/30)	18 x 1.50	17.85	16(30/30)	18 x 1.50	16.65
16(30/30)	24 x 1.50	21.05	16(30/30)	24 x 1.50	19.65
16(30/30)	30 x 1.50	22.48	16(30/30)	30 x 1.50	21.00
16(30/30)	48 x 1.50	28.30	16(30/30)	48 x 1.50	26.47
14(50/30)	2 x 2.50	9.45	14(50/30)	2 x 2.50	8.65
14(50/30)	4 x 2.50	10.97	14(50/30)	4 x 2.50	10.00
14(50/30)	6 x 2.50	13.55	14(50/30)	6 x 2.50	12.35
14(50/30)	12 x 2.50	18.21	14(50/30)	12 x 2.50	16.35
14(50/30)	18 x 2.50	21.55	14(50/30)	18 x 2.50	19.35
14(50/30)	24 x 2.50	25.85	14(50/30)	24 x 2.50	23.05
14(50/30)	30 x 2.50	27.57	14(50/30)	30 x 2.50	24.60
14(50/30)	48 x 2.50	34.61	14(50/30)	48 x 2.50	31.15
12(56/28)	2 x 4.00	10.45			
12(56/28)	4 x 4.00	12.57			
10(84/28)	2 x 6.00	12.45			
10(84/28)	4 x 6.00	14.50			

## Triad(450/750V)

AWG	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Nominal Overall Diameter mm	AWG	No. of Cores Nominal Cross Sectional Area # x mm <sup>2</sup>	Nominal Overall Diameter mm
17(32/32)	2x3x1	12.0	16(30/30)	4x3x1.5	16.3
17(32/32)	3x3x1	12.7	16(30/30)	6x3x1.5	20.3
17(32/32)	4x3x1	14.0	16(30/30)	12x3x1.5	26.6
17(32/32)	6x3x1	17.0	16(30/30)	24x3x1.5	37.6
17(32/32)	12x3x1	22.2	14(50/30)	2x3x2.5	16.7
17(32/32)	24x3x1	31.7	14(50/30)	3x3x2.5	17.6
16(30/30)	2x3x1.5	14.0	14(50/30)	4x3x2.5	19.8
16(30/30)	3x3x1.5	15.0	14(50/30)	6x3x2.5	23.6