FR2OHH2R

Application and Description

These cables are well adapted to use in industrial environments (where chemicals and oils may be present too), in signal and command equipments, in power plants and in any application where is essential guarantee power and control transmission withoutexternal interference and noise.Also suitable for valves power supply, alarm system activation, relay lock, etc.They provide a good screening against electromagnetic (copper wires braid) and electrostatic (AL/PETP tape) interferences.

Standard and Approval

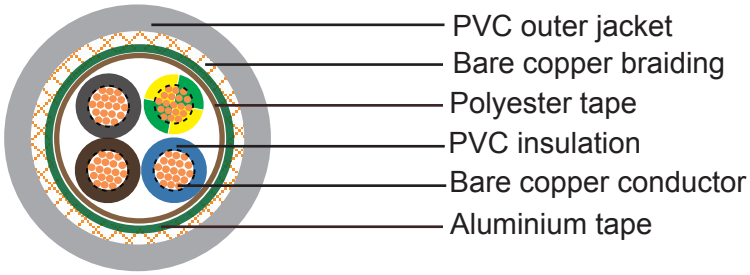
CEI 20-11, CEI 20-22/2, CEI 20-29, CEI 20-35 (EN60332-1), CEI 20-37 pt.1(EN50267)

Cable Construction

- Flexible bare 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
- Color code according to DIN 47100 (up to 0.75 mm²), or Unel 0722 (from 1.0 mm²)
- Aluminium/Polyester tape screen
- Bare copper wires braiding
- PVC outer sheath compound type TM2 / Rz according to CEI 20-11

Technical Characteristics

- Working voltage: 300/300V (up to 0.75 mm²) 300/300V (1.0 mm²) 450/750V (from 1.5 mm²)
- Test voltage: 1500V (up to 1.0 mm²) / 2000V (over 1.0mm²)
- Flexing bending radius: 12 x Ø
- Static bending radius: 8 x Ø
- Flexing temperature: 0º C to +70º C
- Static temperature: -15º C to +70º C
- Flame retardant: VDE 0472 part 804, test method B, and IEC 60332.1
- Insulation resistance: 10 MΩ x km



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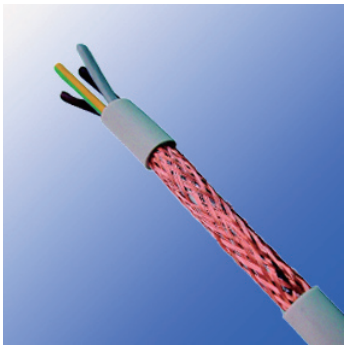


FR2OH2R

Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area # x mm²	Nominal Overall Diameter mm	Nominal Weight kg/km	AWG	No. of Cores x Nominal Cross Sectional Area # x mm²	Nominal Overall Diameter mm	Nominal Weight kg/km
23(7/32)	2x0.22	4.0	21.0	18(24/32)	1x0.75	3.5	24.0
23(7/32)	3x0.22	4.2	27.0	18(24/32)	2x0.75	5.8	44.0
23(7/32)	4x0.22	4.4	29.0	18(24/32)	3x/G0.75	6.0	56.0
23(7/32)	5x0.22	4.8	40.0	18(24/32)	4x0.75	6.8	68.0
23(7/32)	6x0.22	5.1	40.0	18(24/32)	5x0.75	7.2	81.0
23(7/32)	7x0.22	5.1	48.0	18(24/32)	6x0.75	8.0	97.0
23(7/32)	8x0.22	5.6	49.0	18(24/32)	7x0.75	8.0	115.0
23(7/32)	10x0.22	6.3	58.0	18(24/32)	8x0.75	8.6	123.0
23(7/32)	12x0.22	6.5	64.0	18(24/32)	10x0.75	9.9	165.0
23(7/32)	16x0.22	7.1	80.0	18(24/32)	12x0.75	10.5	185.0
23(7/32)	19x0.22	7.6	100.0	18(24/32)	16x0.75	11.4	243.0
23(7/32)	24x0.22	8.7	127.0	18(24/32)	19x0.75	12	297.0
23(7/32)	36x0.22	10.0	162.0	18(24/32)	24x0.75	13.7	363.0
23(7/32)	48x0.22	11.4	213.0	18(24/32)	36x0.75	16.2	537.0
23(7/32)	2x2x0.22	5.4	47.0	18(24/32)	48x0.75	18.4	720.0
23(7/32)	4x2x0.22	6.7	72.0	18(24/32)	2x2x0.75	8.6	117.0
23(7/32)	6x2x0.22	7.5	92.0	18(24/32)	4x2x0.75	10.4	178.0
23(7/32)	8x2x0.22	8.3	102.0	18(24/32)	6x2x0.75	11.8	223.0
23(7/32)	12x2x0.22	9.8	124.0	18(24/32)	8x2x0.75	12.9	257.0
23(7/32)	16x2x0.22	10.5	143.0	18(24/32)	12x2x0.75	15.6	409.0
23(7/32)	24x2x0.22	12.4	224.0	18(24/32)	16x2x0.75	16.9	511.0
23(7/32)	36x2x0.22	14.2	331.0	18(24/32)	24x2x0.75	20.7	772.0
23(7/32)	48x2x0.22	16.2	435.0	18(24/32)	36x2x0.75	23.8	1086.0
21(11/32)	2x0.35	4.8	28.0	18(24/32)	48x2x0.75	27.4	1418.0
21(11/32)	3x0.35	5.0	34.0	17(32/32)	1x1	3.7	27.0
21(11/32)	4x0.35	5.6	43.0	17(32/32)	2x1	6.2	52.0
21(11/32)	5x0.35	6.0	53.0	17(32/32)	3x/G1	6.5	67.0
21(11/32)	6x0.35	6.7	60.0	17(32/32)	4x/G1	7.2	80.0
21(11/32)	7x0.35	6.7	76.0	17(32/32)	5x1	7.78	101.0

Italian Standard

AWG	No. of Cores x Nominal Cross Sectional Area # x mm²	Nominal Overall Diameter mm	Nominal Weight kg/km	AWG	No. of Cores x Nominal Cross Sectional Area # x mm²	Nominal Overall Diameter mm	Nominal Weight kg/km
21(11/32)	8x0.35	7.1	72.0	17(32/32)	7x1	8.4	128.0
21(11/32)	10x0.35	8.1	97.0	17(32/32)	8x1	9.1	160.0
21(11/32)	12x0.35	8.5	112.0	17(32/32)	10x1	10.4	190.0
21(11/32)	16x0.35	9.3	142.0	17(32/32)	12x1	11.2	216.0
21(11/32)	19x0.35	10.0	162.0	17(32/32)	16x1	12.3	287.0
21(11/32)	24x0.35	11.2	198.0	17(32/32)	19x1	13.2	340.0
21(11/32)	36x0.35	13.0	283.0	17(32/32)	24x1	15.1	426.0
21(11/32)	48x0.35	14.9	363.0	17(32/32)	36x1	17.7	649.0
21(11/32)	2x2x0.35	7.1	64.0	17(32/32)	48x1	20.5	901.0
21(11/32)	4x2x0.35	8.5	103.0	17(32/32)	2x2x1	9.2	152.0
21(11/32)	6x2x0.35	9.6	132.0	17(32/32)	4x2x1	11.5	274.0
21(11/32)	8x2x0.35	10.7	168.0	17(32/32)	6x2x1	12.8	393.0
21(11/32)	12x2x0.35	12.5	235.0	17(32/32)	8x2x1	14.2	485.0
21(11/32)	16x2x0.35	13.7	349.0	17(32/32)	12x2x1	17.3	727.0
21(11/32)	24x2x0.35	16.5	458.0	17(32/32)	16x2x1	18.9	966.0
21(11/32)	36x2x0.35	18.9	686.0	17(32/32)	24x2x1	22.9	1385.0
21(11/32)	48x2x0.35	21.8	907.0	17(32/32)	36x2x1	26.3	2096.0
20(16/32)	1x0.50	3.2	23.0	17(32/32)	48x2x1	29.9	2766.0
20(16/32)	2x0.50	5.2	35.0	12(56/28)	2x1.5	7.3	71.0
20(16/32)	3x/G0.50	5.4	42.0	16(30/30)	3x/G1.5	7.7	91.0
20(16/32)	4x/G0.50	5.9	51.0	16(30/30)	4x/G1.5	8.7	122.0
20(16/32)	5x0.50	6.5	63.0	16(30/30)	5G1.5	9.3	140.0
20(16/32)	6x0.50	7.0	73.0	16(30/30)	7G1.5	10.5	193.0
20(16/32)	7x0.50	7.0	78.0	16(30/30)	8G1.5	10.9	255.0
20(16/32)	8x0.50	7.4	88.0	16(30/30)	10G1.5	12.6	279.0
20(16/32)	10x0.50	8.5	112.0	16(30/30)	12G1.5	13.3	330.0
20(16/32)	12x0.50	8.9	120.0	16(30/30)	16G1.5	14.9	418.0
20(16/32)	16x0.50	10.0	167.0	16(30/30)	19G1.5	15.9	552.0
20(16/32)	19x0.50	10.5	208.0	16(30/30)	24G1.5	18.1	604.0
20(16/32)	24x0.50	11.8	243.0	16(30/30)	36G1.5	21.4	950.0
20(16/32)	36x0.50	13.9	363.0	16(30/30)	48G1.5	24.8	1265.0
20(16/32)	48x0.50	15.9	494.0	16(30/30)	2x2x1.5	10.9	204.0
20(16/32)	2x2x0.50	7.3	90.0	16(30/30)	4x2x1.5	13.5	310.0
20(16/32)	4x2x0.50	9.2	134.0	16(30/30)	6x2x1.5	15.4	368.0
20(16/32)	6x2x0.50	10.3	173.0	16(30/30)	8x2x1.5	17.1	492.0
20(16/32)	8x2x0.50	11.5	213.0	16(30/30)	12x2x1.5	20.9	766.0
20(16/32)	12x2x0.50	13.6	283.0	16(30/30)	16x2x1.5	23.1	959.0
20(16/32)	16x2x0.50	14.7	423.0	16(30/30)	24x2x1.5	27.9	1416.0
20(16/32)	24x2x0.50	17.8	614.0	16(30/30)	36x2x1.5	31.7	2187.0
20(16/32)	36x2x0.50	20.4	1020.0				
20(16/32)	48x2x0.50	23.5	1359.0				

AWG	No. of Cores x Nominal Cross Sectional Area # x mm²	Nominal Overall Diameter mm	Nominal Weight kg/km	AWG	No. of Cores x Nominal Cross Sectional Area # x mm²	Nominal Overall Diameter mm	Nominal Weight kg/km
14(50/30)	2x2.5	8.7	104.0	12(56/28)	2x4	10.3	176.0
14(50/30)	3x/G2.5	9.2	136.0	12(56/28)	3G4	11.1	226.0
14(50/30)	4x/G2.5	10.4	180.0	12(56/28)	4G4	12.0	280.0
14(50/30)	5G2.5	10.9	212.0	12(56/28)	5G4	13.5	384.0
14(50/30)	7G2.5	12.0	323.0	10(84/28)	2x6	11.6	233.0
14(50/30)	8G2.5	13.3	368.0	10(84/28)	3G6	12.3	323.0
14(50/30)	10G2.5	15.4	472.0	10(84/28)	4G6	13.8	384.0
14(50/30)	12G2.5	16.2	532.0	10(84/28)	5G6	15.3	332.0
14(50/30)	16G2.5	18.0	694.0	8(80/26)	2x10	15.0	353.0
14(50/30)	19G2.5	19.2	810.0	8(80/26)	3G10	15.8	489.0
14(50/30)	24G2.5	22.2	1019.0	8(80/26)	4G10	17.6	641.0
14(50/30)	36G2.5	26.4	1466.0	8(80/26)	5G10	19.5	769.0
14(50/30)	48G2.5	30.2	1917.0				

G - with green/yellow ground wire

X - without green/yellow ground wire

FG7OR

Application and Description

These cables are suitable for power transport in industry, yards, residential building and handicraft. For installations on masonry and metal structures, on gangways, pipes, ducts and similar systems. For fixed installation indoors and outdoors. Underground laying is acceptable, even if not protected.

Standard and Approval

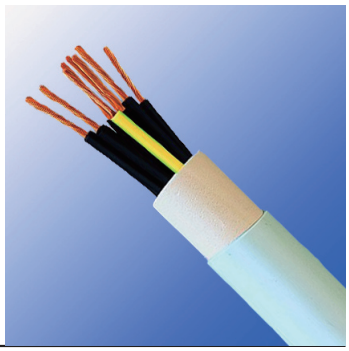
CEI 20-13, CEI 20-22/2, CEI 20-35 (EN60332-1), CEI 20-37 pt.2 (EN50267), CEI 20-52,
Low Voltage Directive 73/23/EEC

Cable Construction

- Flexible conductor of annealed red copper Cl.5
- Rubber HEPR, G7 quality,acc. to CEI 20-11 - CEI 20-3
- Not fibrous and not hygroscopic filler
- Grey PVC RZ quality outer jacket

Technical Characteristics

- Working voltage: 600/1000 V
- Test voltage: 4000 V
- Minimum bending radius: 4 x Ø
- Flexing temperature: -0° C to +90° C
- Static temperature: -25° C to +90° C
- Maximum short circuit temperature: +250° C
- Flame retardant: CEI 20-22 II - IEC 60332-34, CEI 20-35 - IEC 60332-1
- Insulation resistance: 10 MΩ x km



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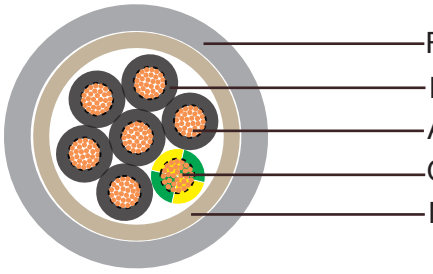

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