

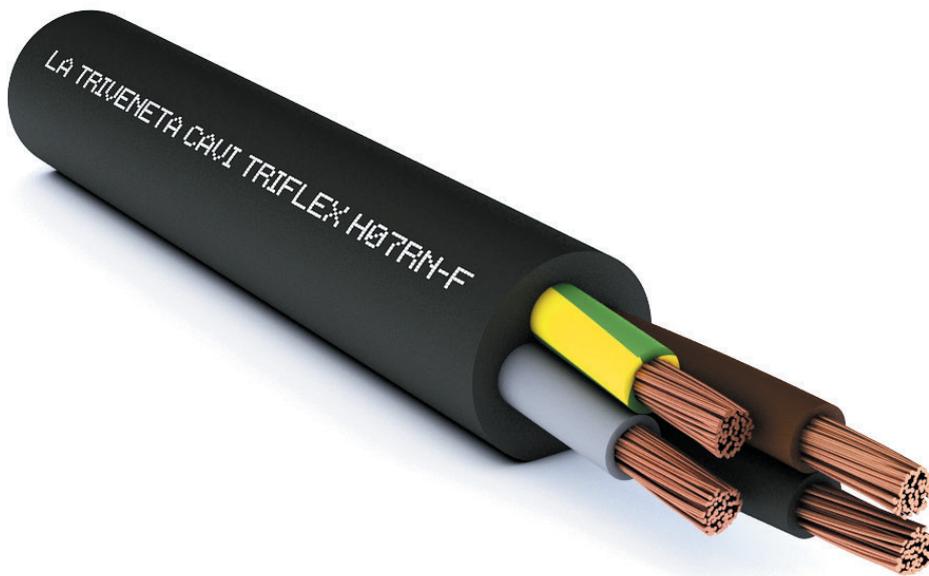
TRIFLEX H07RN-F

Construction: BS EN 50525-2-21

Flame propagation: BS EN 60332-1-2

Low Voltage Directive: 2006/95/EC

RoHS Directive: 2011/65/EC



Description

- Conductor: plain copper wire, flexible, class 5
- Insulation: rubber compound, EI4 quality
- Sheath: polychloroprene or equivalent synthetic elastomer, water resistance (AD6)
- Colour: black

Functional characteristics

- Rated voltage U_0/U : 450/750 V a.c. (600/1000 V d.c.)
- Max. operating temperature: 60°C (*)
- Min. operating temperature: -40°C (without mechanical shocks)
- Max. short circuit temperature: 200°C

(*) In the case of fixed protected installation, the cable can be used up to 85°C.

Special features

Good flexibility and mechanical resistance to abrasion, shocks, crushing and lacerations.
Good resistance to atmospheric agents, grease and mineral oils. UV-resistant.

Marking



LTC IMQ ◀HAR▶ TRIFLEX H07RN-F (FORMATION) (ORDER NUMBER) (YEAR) MADE IN ITALY (PROGRESSION METRIC)

Installation conditions

- Minimum installation temperature: -25°C
- Recommended minimum bending radius: 6 times the cable diameter for mobile use, 4 times for static use
- Recommended maximum tensile stress: 15 N/mm² of the cross-section of the copper for mobile use, 50 N/mm² for static use.

Use and installation method

Mobile laying: for use indoor, outdoor, and in work-shops with explosive atmospheres. Suitable for connections subject to moderate mechanical loads including electrical tools, machine tools (only for signalling and control), motors or portable machines on building sites, or agricultural applications. For fixed installation can be used in temporary buildings or work site sheds. Suitable for connecting the constructional elements of lifting devices and machines. Up to 1000 V alternating or direct current in static, protected installations inside pipes or equipment and for connecting the motors of lifting equipment.

Single-core

Formation	Approx. conductor Ø	Average insulation thickness	Average sheath thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Mobile installation in open air, ambient temperature 30 °C	Fixed and protected installation in open air, ambient temperature 30°C	Voltage drop
n° x mm ²	mm	mm	mm	mm	Ω/km	kg/km	A	A	V/A-Km
1 x 1,5	1,5	0,8	1,4	7,1	13,3	51	16	23	26,5
1 x 2,5	2,0	0,9	1,4	7,9	7,98	67	20	32	16,0
1 x 4	2,5	1,0	1,5	9,0	4,95	92	30	43	9,93
1 x 6	3,0	1,0	1,6	9,8	3,30	121	38	56	6,63
1 x 10	4,0	1,2	1,8	11,9	1,91	186	53	77	3,87
1 x 16	5,0	1,2	1,9	13,4	1,21	256	71	102	2,47
1 x 25	6,2	1,4	2,0	15,8	0,780	368	94	136	1,61
1 x 35	7,4	1,4	2,2	17,9	0,554	485	117	168	1,17
1 x 50	8,9	1,6	2,4	20,6	0,386	668	148	203	0,844
1 x 70	10,5	1,6	2,6	23,3	0,272	905	185	254	0,609
1 x 95	12,2	1,8	2,8	26,0	0,206	1180	222	299	0,484
1 x 120	13,8	1,8	3,0	28,6	0,161	1460	260	363	0,388
1 x 150	15,4	2,0	3,2	31,4	0,129	1810	300	416	0,325
1 x 185	16,9	2,2	3,4	34,4	0,106	2165	341	475	0,279
1 x 240	19,5	2,4	3,5	38,3	0,0801	2750	407	559	0,221
1 x 300	21,6	2,6	3,6	41,9	0,0641	3271	468	637	0,184
1 x 400	24,8	2,8	3,8	46,8	0,0486	4286	553	722	0,159
1 x 500	28,5	3,0	4,0	52,0	0,0384	5301	620	833	0,137
1 x 630	32,8	3,0	4,1	57,0	0,0287	6959	742	888	0,122

N.B. For current rating refer to table "Current carryings. Correction factors. Voltage drops"

Two-core

Formation	Approx. conductor Ø	Average insulation thickness	Average sheath thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Mobile installation in open air, ambient temperature 30 °C	Fixed and protected installation in open air, ambient temperature 30°C	Voltage drop
n° x mm ²	mm	mm	mm	mm	Ω/km	kg/km	A	A	V/A-Km
2 x 1	1,3	0,8	1,3	10,0	19,5	88	10	18	45,2
2 x 1,5	1,5	0,8	1,5	11,0	13,3	113	16	23	30,6
2 x 2,5	2,0	0,9	1,7	13,1	7,98	160	25	32	18,4
2 x 4	2,5	1,0	1,8	15,1	4,95	221	34	43	11,4
2 x 6	3,0	1,0	2,0	16,8	3,30	294	43	56	7,63
2 x 10	4,0	1,2	3,1	22,6	1,91	512	60	77	4,44
2 x 16	5,0	1,2	3,3	25,7	1,21	651	79	102	2,84
2 x 25	6,2	1,4	3,6	30,7	0,780	1013	105	136	1,85

N.B. For current rating refer to table "Current carryings. Correction factors. Voltage drops"

Three-core

Formation (*)	Approx. conductor Ø	Average insulation thickness	Average sheath thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Mobile installation in open air, ambient temperature 30 °C	Fixed and protected installation in open air, ambient temperature 30°C	Voltage drop
n° x mm ²	mm	mm	mm	mm	Ω/km	kg/km	A	A	V/A-Km
3G1	1,3	0,8	1,4	10,7	19,5	107	10	18	45,2
3G1,5	1,5	0,8	1,6	11,9	13,3	135	16	23	30,6
3G2,5	2,0	0,9	1,8	14,0	7,98	190	25	32	18,4
3G4	2,5	1,0	1,9	16,2	4,95	267	35	43	11,4
3G6	3,0	1,0	2,1	18,0	3,30	359	44	56	7,63
3G10	4,0	1,2	3,3	24,2	1,91	635	60	77	4,44
3G16	5,0	1,2	3,5	27,6	1,21	877	82	102	2,84
3G25	6,2	1,4	3,8	33,0	0,780	1270	109	136	1,85
3G35	7,4	1,4	4,1	37,1	0,554	1660	135	168	1,34
3G50	8,9	1,6	4,5	42,9	0,386	2304	169	203	0,962
3G70	10,5	1,6	4,8	48,3	0,272	3062	211	254	0,691
3G95	12,2	1,8	5,3	54,0	0,206	3949	250	299	0,546
3G120	13,8	1,8	5,6	60,0	0,161	4961	290	363	0,438
3G150	15,4	2,0	6,0	66,0	0,129	6111	332	416	0,366
3G185	16,9	2,2	6,4	72,0	0,106	7386	375	475	0,220

(*) also available without the green/yellow

N.B. For current rating refer to table "Current carryings. Correction factors. Voltage drops"

Four-core

Formation (*)	Approx. conductor Ø	Average insulation thickness	Average sheath thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Mobile installation in open air, ambient temperature 30 °C	Fixed and protected installation in open air, ambient temperature 30°C	Voltage drop
n° x mm ²	mm	mm	mm	mm	Ω/km	kg/km	A	A	V/A-Km
4G1	1,3	0,8	1,5	11,9	19,5	130	10	16	39,0
4G1,5	1,5	0,8	1,7	13,1	13,3	164	16	21	26,5
4G2,5	2,0	0,9	1,9	15,5	7,98	238	20	29	16,0
4G4	2,5	1,0	2,0	17,9	4,95	332	30	38	9,93
4G6	3,0	1,0	2,3	20,0	3,30	446	37	50	6,63
4G10	4,0	1,2	3,4	26,5	1,91	779	52	68	3,87
4G16	5,0	1,2	3,6	30,1	1,21	1085	69	92	2,47
4G25	6,2	1,4	4,1	36,6	0,780	1619	92	122	1,61
4G35	7,4	1,4	4,4	41,1	0,554	2109	114	150	1,17
4G50	8,9	1,6	4,8	47,5	0,386	2929	143	182	0,844
4G70	10,5	1,6	5,2	54,0	0,272	3915	178	232	0,609
4G95	12,2	1,8	5,9	61,0	0,206	5085	210	281	0,484
4G120	13,8	1,8	6,0	66,0	0,161	6342	246	325	0,388
4G150	15,4	2,0	6,5	73,0	0,129	7840	280	373	0,325
4G185	16,9	2,2	4,2	80,0	0,106	9465	330	424	0,280

(*) also available without the green/yellow

N.B. For current rating refer to table "Current carryings. Correction factors. Voltage drops"

Five-core

Formation (*)	Approx. conductor Ø	Average insulation thickness	Average sheath thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Mobile installation in open air, ambient temperature 30 °C	Fixed and protected installation in open air, ambient temperature 30°C	Voltage drop
n° x mm ²	mm	mm	mm	mm	Ω/km	kg/km	A	A	V/A-Km
5G1	1,3	0,8	1,6	13,1	19,5	159	10	16	39
5G1,5	1,5	0,8	1,8	14,4	13,3	196	16	21	26,5
5G2,5	2,0	0,9	2,0	17,0	7,98	303	20	29	16,0
5G4	2,5	1,0	2,2	19,9	4,95	401	30	38	9,93
5G6	3,0	1,0	2,5	22,2	3,30	565	38	50	6,63
5G10	4,0	1,2	3,6	29,1	1,91	967	54	68	3,87
5G16	5,0	1,2	3,9	33,3	1,21	1355	71	92	2,47
5G25	6,2	1,4	4,4	40,4	0,780	2008	94	122	1,61
5G35	7,4	1,4	4,6	45,1	0,554	2560	114	150	1,17
5G50	8,9	1,6	5,2	53	0,386	3590	143	182	0,844
5G70	10,5	1,6	5,7	60	0,272	4833	178	232	0,609
5G95	12,2	1,8	6,3	67	0,206	6257	210	281	0,484

(*) also available without the green/yellow

N.B. For current rating refer to table "Current carryings. Correction factors. Voltage drops"

Multi-core / signalling and control

Formation (*)	Approx. conductor Ø	Average insulation thickness	Average sheath thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Mobile installation in open air, ambient temperature 30 °C	Fixed and protected installation in open air, ambient temperature 30°C	Voltage drop
n° x mm ²	mm	mm	mm	mm	Ω/km	kg/km	A	A	V/A·Km
7G1,5	1,5	0,8	2,5	17,2	13,3	333	16	21	30,7
12G1,5	1,5	0,8	2,9	22,4	13,3	477	16	21	30,7
19G1,5	1,5	0,8	3,2	26,3	13,3	683	16	21	30,7
24G1,5	1,5	0,8	3,5	30,7	13,3	867	16	21	30,7
36G1,5	1,5	0,8	3,8	35,2	13,3	1245	16	21	30,7
7G2,5	2,0	0,9	2,7	20,0	7,98	470	25	29	18,4
12G2,5	2,0	0,9	3,1	26,2	7,98	675	25	29	18,4
19G2,5	2,0	0,9	3,5	30,9	7,98	986	25	29	18,4
24G2,5	2,0	0,9	3,9	36,4	7,98	1261	25	29	18,4
36G2,5	2,0	0,9	4,3	41,8	7,98	1810	25	29	18,4

(*) also available without the green/yellow

N.B. For current rating refer to table "Current carryings. Correction factors. Voltage drops"