

TRI-RATED

Construction:	UL Style 1015; UL 758
	CSA C22.2
	BS 6231 Type CK
	BS EN 50525-2-31

STANDARDS

TRI-RATED	BI-RATED	H07V2-K
UL - CSA - BS	UL - CSA	EN
0,5 ÷ 240 mm ²	300 ÷ 500 mm ²	1,5 ÷ 35 mm ²

Flame propagation:	VW-1; FT-1; FT-2
	BS EN 60332-1-2

Low Voltage Directive:	2014/35/EU
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RoHS Directive:	2011/65/EC
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Functional characteristics

- Rated voltage:
600 V a.c. - 750 V d.c. (UL - CSA)
U_o/U 600/1000 V a.c. - 1000 V d.c. to ground (BS)
U_o/U 450/750 V a.c. - 675 V d.c. to ground (EN)
- Max. operating temperature:
105°C (UL - CSA)
90 °C (BS - EN)
- Min. operating temperature: -15°C
(without mechanical shocks)
- Max. short circuit temperature: 160°C

Description

- Conductor: plain copper wire, flexible, class 5
- Insulation: HT-PVC
- Colour: black, blue, brown, dark blue, green, green/yellow, grey, orange, pink, red, violet, white, yellow.

Colour	RAL number
Black	9005
Blue	5012
Brown	8003
Dark Blue	5003
Green	upon request
Green / Yellow	1021 / 6018
Grey	7000
Orange	2003
Pink	3015
Red	3000
Violet	4005
White	9010
Yellow	upon request

Special features

Good endurance properties, good abrasion resistance, easy stripping.
Thermal endurance properties (temperature index TI): 110°C referring to 20.000 hours (BS EN 60216-1)

Installation conditions

- Minimum installation temperature: 5°C
- Recommended minimum bending radius: 6 times the cable diameter
- Recommended maximum tensile stress: 50 N/mm² of the cross-section of the copper

Use and installation method

High temperature cables designed for use on internal wiring appliances and for the wiring of switch, control and instruments panels of power switchgear. Also used as connection of cable for motors and transformers.

Formation		Applicable norms				Max. external Ø (mm)	Voltage drop (V/A-km)	Approx. cable weight (kg/km)	Current (A)	
n° x mm ²	AWG	EN 50525-2-31	BS 6231	UL 758	CSA 22.2				2 cond.	3 cond.
1 x 0.5	22	H05V2-K	CK	Style 1015	Type TEW	2.4	99.5	10	12	10
1 x 0.75	20	H05V2-K	CK	Style 1015	Type TEW	2.7	66.6	13	15	13
1 x 1	18	H05V2-K	CK	Style 1015	Type TEW	2.8	49.9	15	18	16
1 x 1.5	16	H07V2-K	CK	Style 1015	Type TEW	3.0	34.0	20	23	20
1 x 2.5	14	H07V2-K	CK	Style 1015	Type TEW	3.5	20.4	30	31	28
1 x 4	12	H07V2-K	CK	Style 1015	Type TEW	4.0	12.7	45	42	37
1 x 6	10	H07V2-K	CK	Style 1015	Type TEW	4.6	8.45	65	54	48
1 x 10	8	H07V2-K	CK	Style 1028	Type TEW	6.3	4.89	110	75	66
1 x 16	6	H07V2-K	CK	Style 1283	Type TEW	8.0	3.10	180	100	88
1 x 25	4	H07V2-K	CK	Style 1283	Type TEW	9.4	2.00	265	133	117
1 x 35	2	H07V2-K	CK	Style 1283	Type TEW	10.5	1.42	355	164	144
1 x 50	1	07V2-K	CK	Style 1284	Type TEW	13.1	0.99	510	198	175
1 x 70	2/0	07V2-K	CK	Style 1284	Type TEW	14.5	0.696	695	253	222
1 x 95	3/0	07V2-K	CK	Style 1284	Type TEW	16.1	0.527	890	306	269
1 x 120	4/0	07V2-K	CK	Style 1284	Type TEW	17.8	0.412	1125	354	312
1 x 150	250 MCM	07V2-K	CK	Style 1284	--	20.2	0.330	1415	407	358
1 x 185	350 MCM	07V2-K	CK	Style 1284	--	21.9	0.270	1700	464	408
1 x 240	450 MCM	07V2-K	CK	Style 1284	--	24.3	0.205	2205	546	481
1 X 300	550 MCM	07V2-K	--	Style 1284	--	27.7	0.164	2800	628	553
1 x 400	700 MCM	07V2-K	--	Style 1284	--	31.6	0.124	3655	751	661