

# Rubber Sheathed Cables



## YCW — Heavy Duty Tough Rubber Sheathed Flexible Cable

Standards: IEC 60245-4, GB/T 5013.4, JB/T 8735

### Technical Data

**Rated voltage (U0/U):** 450/750 V

**Max. conductor temperature:** 60 °C (normal operation)

**Min. ambient temperature:** -35 °C

**Min. bending radius:**  $\geq 4 \times OD$  ( $D \leq 25$  mm);  $\geq 6 \times OD$  ( $D > 25$  mm)

### Application

60245 IEC 66 (YCW) is a heavy-duty tough rubber-sheathed flexible cable for mobile electrical equipment, electric tools, portable machinery, hoists, and various movable apparatus at rated AC voltages up to 450/750 V. The polychloroprene (or equivalent synthetic elastomer) sheath provides excellent weather, oil, abrasion, and mechanical-stress resistance, making it suitable for outdoor and harsh industrial environments.

### Construction

- ① Flexible stranded copper conductor (Class 5, plain or tinned)
- ② Rubber insulation
- ③ Cores twisted with rubber filler
- ④ Tough rubber sheath

DIMENSION & WEIGHT					ELECTRICAL PROPERTIES		
Number of Cores × Cross Section	Insulation Thickness (nom)	Sheath Thickness (nom)	Overall Diameter (approx)	Net Weight (approx)	Delivery Length	DC Conductor Resistance 20°C Max	Current Capacity (air)
No. × mm <sup>2</sup>	mm	mm	mm	kg/km	m	Ω/km	A
2 × 1.5	0.8	1.8	9.8	106	500	13.30	18
3 × 1.5	0.8	1.8	10.3	126	500	13.30	16
4 × 1.5	0.8	1.8	11.1	152	500	13.30	16
5 × 1.5	0.8	1.8	12.0	181	500	13.30	16
2 × 2.5	0.9	1.8	11.2	146	500	7.98	26
3 × 2.5	0.9	1.8	11.8	177	500	7.98	23
4 × 2.5	0.9	1.8	12.8	217	500	7.98	23
5 × 2.5	0.9	1.8	13.9	260	500	7.98	23
2 × 4	1.0	1.8	12.6	198	500	4.95	34
3 × 4	1.0	1.8	13.3	244	500	4.95	30
4 × 4	1.0	1.8	14.5	303	300	4.95	30
5 × 4	1.0	1.8	15.8	366	300	4.95	30
2 × 6	1.0	1.8	13.8	255	500	3.30	44
3 × 6	1.0	1.8	14.6	320	300	3.30	38
4 × 6	1.0	1.8	15.9	401	300	3.30	38
5 × 6	1.0	1.8	17.4	487	300	3.30	38
2 × 10	1.2	1.8	16.6	388	300	1.910	60
3 × 10	1.2	1.8	17.6	493	300	1.910	53
4 × 10	1.2	2.2	20.1	649	300	1.910	53
5 × 10	1.2	2.2	22.0	790	300	1.910	53

DIMENSION & WEIGHT					ELECTRICAL PROPERTIES		
Number of Cores × Cross Section	Insulation Thickness (nom)	Sheath Thickness (nom)	Overall Diameter (approx)	Net Weight (approx)	Delivery Length	DC Conductor Resistance 20°C Max	Current Capacity (air)
No. × mm <sup>2</sup>	mm	mm	mm	kg/km	m	Ω/km	A
2 × 16	1.2	2.2	19.4	566	300	1.210	80
3 × 16	1.2	2.2	20.6	727	300	1.210	71
4 × 16	1.2	2.2	22.5	920	200	1.210	71
5 × 16	1.2	2.2	24.6	1126	200	1.210	71
2 × 25	1.4	2.2	23.2	836	200	0.7800	105
3 × 25	1.4	2.2	24.7	1083	200	0.7800	93
4 × 25	1.4	2.2	27.1	1377	200	0.7800	93
5 × 25	1.4	2.8	31.0	1755	200	0.7800	93
2 × 35	1.4	2.2	25.8	1092	200	0.5540	130
3 × 35	1.4	2.2	27.5	1428	200	0.5540	116
4 × 35	1.4	2.8	31.5	1889	200	0.5540	116
5 × 35	1.4	2.8	34.5	2317	100	0.5540	116
2 × 50	1.6	2.2	29.0	1475	200	0.3860	160
3 × 50	1.6	2.8	32.2	2016	100	0.3860	144
4 × 50	1.6	2.8	35.4	2576	100	0.3860	144
5 × 50	1.6	2.8	38.8	3170	100	0.3860	144
2 × 70	1.6	2.8	34.0	2038	100	0.2720	200
3 × 70	1.6	2.8	36.3	2694	100	0.2720	184
4 × 70	1.6	2.8	40.0	3455	100	0.2720	184
5 × 70	1.6	3.4	45.1	4355	50	0.2720	184
2 × 95	1.8	2.8	38.6	2693	100	0.2060	245
3 × 95	1.8	3.4	42.4	3664	100	0.2060	223
4 × 95	1.8	3.4	46.7	4696	50	0.2060	223
5 × 95	1.8	3.4	51.4	5789	50	0.2060	223
2 × 120	1.8	3.4	43.0	3373	100	0.1610	283
3 × 120	1.8	3.4	45.9	4481	50	0.1610	259
4 × 120	1.8	3.4	50.6	5760	50	0.1610	259
5 × 120	1.8	3.4	55.7	7111	50	0.1610	259
2 × 150	2.0	3.4	47.2	4145	50	0.1290	323
3 × 150	2.0	3.4	50.4	5525	50	0.1290	295
4 × 150	2.0	3.4	55.7	7114	50	0.1290	295
5 × 150	2.0	4.0	62.5	8923	50	0.1290	295
2 × 185	2.2	3.4	51.6	5038	50	0.1060	368
3 × 185	2.2	3.4	55.2	6733	50	0.1060	339
4 × 185	2.2	4.0	62.2	8812	50	0.1060	339
5 × 185	2.2	4.0	68.5	10887	50	0.1060	339
2 × 240	2.4	4.0	58.8	6531	50	0.0801	431
3 × 240	2.4	4.0	62.9	8726	50	0.0801	399
4 × 240	2.4	4.0	69.5	11249	50	0.0801	399
5 × 240	2.4	4.0	76.6	13916	50	0.0801	399

Note: Conductors are flexible stranded copper (Class 5 per IEC 60228); DC conductor resistance is the maximum at 20 °C for plain copper. Dimensions and weights are approximate and for reference only. Current-carrying capacity is indicative, in free air at 30 °C ambient with 60 °C conductor (2-core values for 2-core cables; 3-core values applied to 3/4/5-core cables) — apply derating factors per installation method. Delivery length follows packaging practice: lighter cables in longer drums, heavier large-section cables in shorter drum lengths; other lengths available on request.