



# FLEX-CH

Halogen-free control cable copper screened

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## Technical Data:

- **Conductor material** copper, bare
- **Conductor Class** Class 5 according VDE 0295 resp IEC 60228
- **Core Insulation** Halogen-free compound
- **Core identification** Acc. to DIN VDE 0293: Black cores with consecutive white numerals
- **Stranding** Cores twisted in layers
- **Outer sheath** Halogen-free compound
- **Sheath colour** Grey (RAL 7001)
- **Rated voltage [V]** 300/500
- **Testing voltage [V]** 3000
- **Insulation resistance** min 20M $\Omega$  x km
- **Current carrying capacity** DIN VDE (see technical guidelines)
- **Min. bending radius fixed [xd]** 6xd
- **Min. bending radius moved [xd]** 12xd
- **Working temp fixed min/max [C]** -40°C up to +80°C
- **Working temp moved min/max [C]** -15°C up to +70°C
- **Burning behaviour** VDE 0482-332-1-1: halogen-free und highly flameretardant; IEC-60332-3

## Construction:

- fine strands of bare copper conductor
- cores black with continuous white figure Imprint
- core insulation: halogen-free compound
- stranding acc. to VDE 0295 class 5 - earth conductor green/yellow
- cores twisted in layers
- copper screen braiding of tinned copper wires
- outer sheath: halogen-free compound grey, RAL 7001

## Tests:

- halogen-free according to DIN VDE 0472 part 815
- behaviour in fire no flame propagation, test method to DIN VDE 0472 part 804 test method C. IEC 332-3 and HD 405.3 and as well as flame retardant and self-extinguishing to IEC 332-1 and DIN VDE 0472 part 804 test method B
- corrosiveness of combustion gases (freedom for Halogen) test method to VDE 0472 part 813. IEC 754-2. HD 602 and 606
- burning behaviour according to VDE 0472 part 816 test method C. IEC 1034-1/1034-2. HD 606 and BS 7622 part 1 and 2

## Application:

Halogen-free, flame retardant power control cable with improved properties in case of fire, Suitable for fixed or flexible applications. Suitable for use as energy, power, control or connecting cable to meet stringent safety requirements. Installation in dry and moist rooms. Pronounced advantages in comparance to a PVC control cable (e.g. Flex-JZ): - low fire load - low smoke emission - reduced fire propagation.

Part Number	No of cores x Cross section	Outer $\varnothing$ ca. mm	Copper weight kg /100	Weight 100 kg/100	Part Number	No of cores x Cross section	Outer $\varnothing$ ca. mm	Copper weight kg /100	Weight 100 kg/100
214020050	2 x 0.50	5.80	3.60	4.50	214050250	5 G 2.50	11.00	17.50	22.90
214030050	3 G 0.50	6.20	4.20	5.30	21407020	7 G 2.50	12.20	24.60	30.10
214040050	4 G 0.50	6.80	4.80	6.60	214120250	12 G 2.50	16.40	39.20	49.00
214050050	5 G 0.50	7.20	5.60	8.30	214180250	18 G 2.50	19.70	56.41	69.10
214070050	7 G 0.50	7.80	7.10	10.60	214250250	25 G 2.50	24.20	77.00	96.30
214120050	12 G 0.50	10.10	10.70	16.10	214040400	4 G 4	12.00	23.70	28.30
214180250	18 G 0.50	11.80	14.40	22.80	214050400	5 G 4	13.20	26.20	34.80
214250050	25 G 0.50	13.80	20.80	29.90	214020600	2 x 6	11.90	20.00	28.50
214020075	2 x 0.75	6.20	3.90	5.80	214030600	3 G 6	12.50	25.30	32.90
214030075	3 G 0.75	6.60	5.10	7.30	214040600	4 G 6	14.10	35.80	42.40
214040075	4 G 0.75	7.20	6.10	8.00	214050600	5 G 6	15.70	44.18	48.90
214050075	5 G 0.75	7.80	7.40	10.20	214021600	2 x 10	14.70	32.80	44.80
214070075	7 G 0.75	8.70	9.10	13.20	214031600	3 G 10	15.70	38.50	50.60
214120075	12 G 0.75	11.00	14.20	20.50	214041600	4 G 10	17.20	53.40	66.80
214180075	18 G 0.75	13.00	20.50	29.70	214051600	5 G 10	19.50	64.00	81.00
214250075	25 G 0.75	15.20	28.50	41.60	214071600	7 G 10	21.20	85.00	120.00
214020100	2 x 1	6.50	4.90	6.70	214021600	2 x 16	17.00	42.00	57.00
214030100	3 G 1	7.00	6.00	8.00	214031600	3 G 16	18.40	75.00	89.00
214040100	4 G 1	7.50	7.60	10.70	214041600	4 G 16	20.20	91.00	103.00
214050100	5 G 1	8.30	8.60	12.60	214051600	5 G 16	22.80	105.00	126.20
214070100	7 G 1	9.00	10.90	15.20	214071600	7 G 16	24.80	147.00	170.00
214120100	12 G 1	11.80	18.20	24.60	214032500	3 G 25	22.30	90.00	99.60
214180100	18 G 1	14.00	26.10	35.60	214033500	3 G 35	25.80	113.00	132.90
214250100	25 G 1	16.30	34.90	48.70	214035000	3 G 50	30.50	176.60	308.00
214020150	2 x 1.50	7.20	6.30	7.00	214042500	4 G 25	26.10	128.90	152.00
214030150	3 G 1.50	7.80	8.10	10.40	214052500	5 G 25	28.40	148.60	192.30
214040150	4 G 1.50	8.40	9.70	12.70	214043500	4 G 35	29.20	169.30	234.20
214050150	5 G 1.50	9.00	11.60	15.50	214053500	5 G 35	33.20	201.50	291.20
214070150	7 G 1.50	10.00	15.20	20.40	214045000	4 G 50	35.50	228.80	325.00
214120150	12 G 1.50	13.20	26.10	31.90	214055000	5 G 50	39.20	278.10	416.20
214180150	18 G 1.50	15.80	36.90	47.20	214047000	4 G 70	40.50	308.90	430.70
214250150	25 G 1.50	18.00	51.70	64.90	214049500	4 G 95	48.30	406.00	635.70
214020250	2 x 2.50	8.60	9.30	11.80	2140412000	4 G 120	53.70	511.60	806.10
214030250	3 G 2.50	9.20	11.30	15.00					
214040250	4 G 2.50	10.10	14.62	18.80					