

Excellent
chemical resistance

The robust flexible all-weather control cable 300/500 V
For usage under difficult environment conditions



LAPP KABEL STUTTGART ÖLFLEX® ROBUST 210 CE



Application

ÖLFLEX® ROBUST 210 is the number coded control cable version of the new ÖLFLEX® ROBUST product family. Based on Lapp Kabels unique ÖLFLEX® NATUR TPE-material, having special resistance characteristics to vegetable based oils (Bio-Oils). Suitable for free, not continuously moving applications without tensile load or compulsory guidance as well as for fixed laying. Indoor & outdoor use in dry, damp and wet interiors at medium mechanical stress. Well performed for usage in the food & beverage industry, especially for production- and processing equipments of milk and meat products. Best performance to machine tool-, medical-, laundry-, car-wash- & chemical industry applications, sewage-plants.

Advantages

ÖLFLEX® ROBUST offers advantages: A better price-performance ratio. Its extended performance opens up a wider field of applications which comes along with a significant better price level. All-weather performance due its improved UV-light protection, water- and chemical resistance characteristic. Materials are halogen free. Predestinated for use in environments, where exposed to oils, greases, waxes, (vegetable & animal based oils and fats, mineral or synthetic oils and fats) or emulsions. Its very high resistance characteristic against water (cold and warm) as well as in-water-mixed detergents/cleaners/lotions (soaps, tensides) makes this cable indispensable everywhere periodically cleaning processes.

Low capacitance characteristic and highest dielectric strength completes the outstanding performance of that cable.

Worth knowing

Further Lapp products having ÖLFLEX® ROBUST performance: Hard service flexible cord, colour coded, U0/U 450/750 V see ÖLFLEX® ROBUST 200. Control cable, number coded, EMC compliant copper braid U0/U 300/500 V see ÖLFLEX® ROBUST 215 C. Highly flexible cables for power chain use, number coded, U0/U 300/500 V see LAPPTHERM® FD plus. Cable having extended temperatur-range up to +105 °C see ÖLFLEX® FD ROBUST. ÖLFLEX® ROBUST 200 is conform to EEC directive 73/23 (Low Voltage Directive) CE .

Cable Make-up

Fine wire strand of plain copper wires in accordance to VDE 0295 Cl.5 / IEC 60228 Cl.5. Special TPE insulation having low capacitance characteristic. Core-ident-code: black with white numbers, version G having one protective conductor green-yellow (GNYE), version X without protective conductor. Cores twisted in layers having short laylength, robust outer sheath made of halogenfree TPE, arctic grade, UV-light resisant, black (RAL 9005).

Technical Data

Minimum bending radius for flexing: 15 x cable diameter
static: 4 x cable diameter

Temperature range: flexing: -40 °C up to +80 °C
static: -50 °C up to +80 °C

Conductor stranding: fine wire in accord. to VDE 0295, class 5 / IEC 60228 Cl.5

Core ident code: black cores with printed white numbers (VDE 0293)

Protective conductor: G = with protective conductor
X = without protective conductor

Nominal voltage U0/U: 300/500 V

Insulation: specific insulation resistance: > 20 GΩhm x cm

Test voltage: 4000 V

In accordance to: Conductor: VDE 0245/0250/0281
Sheath: VDE 0250/0281/0

Part number	No of cores and mm ² per conductor	Approx. outside diameter in mm ca.	Copper weight kg/km	Approx. weight kg/km
0021 880	2 X 0,5	4,9	10,0	27
0021 881	3 G 0,5	5,2	15,0	33
0021 882	3 X 0,5	5,2	15,0	33
0021 883	4 G 0,5	5,8	19,2	41
0021 884	4 X 0,5	5,8	19,2	41
0021 885	5 G 0,5	6,3	24,0	49
0021 886	5 X 0,5	6,3	24,0	49
0021 888	7 G 0,5	6,9	33,6	64
0021 889	7 X 0,5	6,9	33,6	64
0021 890	10 G 0,5	8,8	48,0	92
0021 891	12 G 0,5	9,1	58,0	106
0021 892	18 G 0,5	10,8	86,4	151
0021 893	25 G 0,5	12,7	120,0	210
0021 897	2 X 0,75	5,5	14,4	35
0021 898	3 G 0,75	5,8	21,6	44
0021 899	3 X 0,75	5,8	21,6	44
0021 900	4 G 0,75	6,3	28,8	54

G = with protective conductor; X = without protective conductor.
No cutting charge for standard stock units (50, 100, 250, 500, 1000 m).
Please declare us your desired design (e.g. 1 x 500 m drum or 5 x 100 rings).
Coils < 30 kg, > Drums.