



APPLICATION: These PUR sheathed, screened flexible control and connecting cables are used in instrumentation and control engineering where low current consumptions are required and transmission of the data must be continuous, for example in industrial electronics, voice frequency, information and transmission systems office machines. And also consisting of tinned copper wires as screen provides protection against external pulses. These PUR sheathed cables are suitable for reinforced outer applications and also for UV resistant.

CABLE DESIGN

Conductor	: Flexible copper wires, plain; IEC 60228 Class 5, TS/DIN EN 60228 Class 5
Insulation	: PVC compound, Y12 VDE 0207-4
Core identification	: According to DIN 47100 or TS/DIN EN 50334 : black cores with white numerals
Lay-up	: Cores laid up in layers of optimum pitch
Separator	: Polyester tape
Screen	: Braid of tinned Cu wires, 85% coverage
Outer sheath	: PUR compound, 11YM1, VDE 0282-10
Sheath colour	: RAL 9005, Black

TECHNICAL DATA

Standard	: VDE 0812 & VDE 0814 & VDE 0245 & VDE 0282-10
Insulation resistance	: Min. 200 MΩ.km
Mutual Capacitance (800 Hz)	: d/d-c/c 0,14 mm ² : max. 120 pF/m d/d-c/c ≥ 0,25 mm ² : max. 150 pF/m d/e-c/s 0,14 mm ² : max. 240 pF/m d/e-c/s ≥ 0,25 mm ² : max. 270 pF/m
Inductance	: ~ 0,67 Mh/km
Impedance	: ~ 80 Ω
Rated voltage	: 0,14 mm ² : 350 V ≥ 0,25 mm ² : 500V (for peak voltage) U ₀ /U ≥ 0,50 mm ² : 300/500V
Test voltage (AC 50 Hz)	: 0,14 mm ² : 1200 V ≥ 0,25 mm ² : 1500 V ≥ 0,50 mm ² : 2000 V
Temperature range	: Fixed: - 30 °C ~ + 80 °C Mobile: - 5 °C ~ + 70 °C
Min. bending radius	: Fixed: 6 x D Mobile: 15 x D
Flame retardance test	: IEC 60332-1 & EN 50265-2-1

Cross Sections

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1129 05 002	2x0,50	6,8	23	45
1129 05 003	3x0,50	7,0	28	55
1129 05 004	4x0,50	7,4	34	65
1129 05 005	5x0,50	7,8	42	70
1129 05 007	7x0,50	8,6	53	100
1129 05 012	12x0,50	10,5	82	155
1129 05 016	16x0,50	11,0	105	200
1129 06 002	2x0,75	7,3	29	75
1129 06 003	3x0,75	7,6	37	85
1129 06 004	4x0,75	8,0	45	105
1129 06 005	5x0,75	8,9	55	110
1129 06 007	7x0,75	9,2	70	135
1129 06 012	12x0,75	11,6	115	200
1129 06 016	16x0,75	12,6	145	250
1129 07 002	2x1,0	7,4	35	85
1129 07 003	3x1,0	8,0	45	95
1129 07 004	4x1,0	8,3	56	130
1129 07 005	5x1,0	9,1	68	145
1129 07 007	7x1,0	9,5	87	185
1129 07 012	12x1,0	12,6	143	280
1129 07 016	16x1,0	14,0	190	345

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1129 08 002	2x1,5	8,2	48	95
1129 08 003	3x1,5	8,8	65	115
1129 08 004	4x1,5	9,2	80	145
1129 08 005	5x1,5	9,8	95	170
1129 08 007	7x1,5	10,4	130	210
1129 08 012	12x1,5	14,2	215	305
1129 08 016	16x1,5	16,8	270	415
1129 09 002	2x2,5	9,0	73	130
1129 09 003	3x2,5	9,4	95	170
1129 09 004	4x2,5	10,4	111	205
1129 09 005	5x2,5	11,4	132	235
1129 09 007	7x2,5	12,5	185	315
1129 09 012	12x2,5	16,6	308	470
1129 09 020	20x2,5	20,8	494	765
1129 10 002	2x4	11,0	121	205
1129 10 003	3x4	12,0	159	280
1129 10 004	4x4	13,1	222	325
1129 11 002	2x6	13,0	155	295
1129 11 003	3x6	14,0	215	320
1129 11 004	4x6	14,8	308	450
1129 12 004	4x10	18,2	453	695