

Bruflex® Y-JZ/ -OZ

Flexible control cable – VDE approval with manufacturing control to VDE Reg. No. 7507



Applications

Used as energy or connecting cable or as measuring and control cable in machine tool manufacturing, plant engineering and on assembly and production lines.

Suitable for stationary installation or flexible applications with unrestricted mobility without forced movement control and without exposure to tensile load. Installation in dry, damp and wet environments.

When used for outdoor applications, adequate protection against direct exposure to sunlight must be ensured and the specified temperature limits must be observed.

Design

- Stranded bare Cu conductor, fine wire
- Strand structure to VDE 0295, class 5 / IEC 60228 class 5
- Core insulation: special PVC
- Core identification: black cores with printed consecutive number coding with green-yellow protective conductor (3 cores and over) in the outer layer
- OZ = without protective conductor
- Cores twisted in layers, with optimal lay lengths
- Outer sheath: special PVC
- Sheath colour: RAL 7001 grey

Electrical and technical specifications

Rated voltage:	
U ₀ /U	300/500 V
Test voltage:	4000 V
Insulation resistance at +20° C:	≥ 20 MOhm x km
Bending radius:	15 x cable diameter
Temperature range:	
flexible	- 5° C to +70° C
stationary	-30° C to +70° C
Flame retardant to IEC 60332-1	

Item No.	Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
101005002	2x0.5 OZ	9.6	4.9	38
101005003	3x0.5	14.4	5.2	47
105005003	3x0.5 OZ	14.4	5.2	47
101005004	4x0.5	19.2	5.7	58
105005004	4x0.5 OZ	19.2	5.7	58
101005005	5x0.5	24.0	6.0	75
105005005	5x0.5 OZ	24.0	6.0	75
101005006	6x0.5	28.8	6.5	89
101005007	7x0.5	33.6	7.0	93
105005007	7x0.5 OZ	33.6	7.0	93
101005008	8x0.5	38.4	7.6	110
105005008	8x0.5 OZ	38.4	7.6	110
101005010	10x0.5	48.0	8.5	142
105005010	10x0.5 OZ	48.0	8.5	142
101005012	12x0.5	58.0	9.0	150
105005012	12x0.5 OZ	58.0	9.0	150
101005014	14x0.5	67.0	9.2	172
101005016	16x0.5	77.0	10.3	196
101005018	18x0.5	86.0	10.7	216
101005020	20x0.5	96.0	11.7	231
101005021	21x0.5	101.0	11.9	249
101005025	25x0.5	120.0	12.7	257
101005030	30x0.5	144.0	13.6	308
101005032	32x0.5	154.0	13.9	321
101005034	34x0.5	163.0	14.6	398
101005040	40x0.5	192.0	15.5	452
101005042	42x0.5	202.0	16.1	471
101005050	50x0.5	240.0	17.5	510
101005052	52x0.5	252.0	17.6	530
101005061	61x0.5	293.0	18.8	670
101005065	65x0.5	312.0	19.7	685
101005080	80x0.5	384.0	21.4	778
199000057	100x0.5	480.0	23.8	970

Item No.	Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
101007502	2x0.75 OZ	14.4	5.5	43
101007503	3x0.75	22.0	5.7	61
105007503	3x0.75 OZ	22.0	5.7	61
101007504	4x0.75	28.8	6.2	75
105007504	4x0.75 OZ	28.8	6.2	75
101007505	5x0.75	36.0	6.9	100
105007505	5x0.75 OZ	36.0	6.9	100
101007506	6x0.75	43.2	7.5	114
105007506	6x0.75 OZ	43.2	7.5	114
101007507	7x0.75	50.0	7.6	125
105007507	7x0.75 OZ	50.0	7.6	125
101007508	8x0.75	58.0	8.8	140
105007508	8x0.75 OZ	58.0	8.8	140
101007509	9x0.75	65.0	9.6	148
101007510	10x0.75	72.0	9.9	172
101007512	12x0.75	86.0	10.1	210
105007512	12x0.75 OZ	86.0	10.1	210
101007514	14x0.75	101.0	10.8	225
101007515	15x0.75	108.0	11.1	240
101007518	18x0.75	130.0	12.0	270
101007520	20x0.75	144.0	12.9	310
101007521	21x0.75	151.0	13.3	334
101007525	25x0.75	180.0	14.1	370
101007530	30x0.75	216.0	15.0	440
101007531	31x0.75	223.2	16.0	450
101007532	32x0.75	230.0	16.1	475
101007534	34x0.75	245.0	16.2	512
101007537	37x0.75	260.0	16.4	533
101007540	40x0.75	288.0	17.5	570
101007541	41x0.75	296.0	17.7	580
101007542	42x0.75	302.0	17.7	590
101007550	50x0.75	360.0	19.4	640
101007561	61x0.75	439.0	20.8	775
101007565	65x0.75	468.0	21.8	895
101007580	80x0.75	576.0	23.9	1153
199000152	100x0.75	720.0	26.3	1312
101010002	2x1.0 OZ	19.2	5.8	57
101010003	3x1.0	28.8	6.3	80
105010003	3x1.0 OZ	28.8	6.3	80
101010004	4x1.0	38.4	6.7	106
105010004	4x1.0 OZ	38.4	6.7	106
101010005	5x1.0	48.0	7.3	123
105010005	5x1.0 OZ	48.0	7.3	123
101010006	6x1.0	57.6	8.1	135
105010007	7x1.0 OZ	67.0	8.3	149
101010007	7x1.0	67.0	8.3	149
101010008	8x1.0	77.0	9.5	175
101010009	9x1.0	86.4	10.2	200
101010010	10x1.0	96.0	10.4	220
105010010	10x1.0 OZ	96.0	10.4	220
101010012	12x1.0	115.2	10.7	260
105010012	12x1.0 OZ	115.2	10.7	260
101010014	14x1.0	134.4	11.5	290
101010016	16x1.0	153.6	12.0	320
101010018	18x1.0	172.8	12.8	350
105010018	18x1.0 OZ	172.8	12.8	350
101010019	19x1.0	182.0	12.8	360
101010020	20x1.0	192.0	13.6	370
101010021	21x1.0	205.0	14.1	382
101010024	24x1.0	236.0	14.6	444
101010025	25x1.0	240.0	14.7	470
101010026	26x1.0	252.0	15.1	495
101010027	27x1.0	259.0	15.8	530
101010034	34x1.0	326.4	17.1	600
101010036	36x1.0	346.0	17.5	620
101010037	37x1.0	355.0	17.5	631

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Item No.	Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
101010040	40x1.0	384.0	18.4	678
101010041	41x1.0	394.0	18.9	699
101010042	42x1.0	403.2	18.9	720
101010050	50x1.0	480.0	20.8	926
101010056	56x1.0	538.0	21.5	1020
101010061	61x1.0	585.6	22.4	1100
101010065	65x1.0	624.0	23.3	1170
101010080	80x1.0	786.0	25.6	1300
199000086	100x1.0	960.0	28.5	1628
101015002	2x1.5 OZ	28.8	6.6	100
101015003	3x1.5	43.2	6.8	110
105015003	3x1.5 OZ	43.2	6.8	110
101015004	4x1.5	57.6	7.4	125
105015004	4x1.5 OZ	57.6	7.4	125
101015005	5x1.5	72.0	8.3	145
105015005	5x1.5 OZ	72.0	8.3	145
101015006	6x1.5	86.4	9.0	170
101015007	7x1.5	100.8	9.1	195
105015007	7x1.5 OZ	100.8	9.1	195
101015008	8x1.5	115.0	10.8	215
101015009	9x1.5	129.0	11.6	232
101015010	10x1.5	144.0	11.6	258
101015012	12x1.5	172.8	12.3	310
105015012	12x1.5 OZ	172.8	12.3	310
101015014	14x1.5	202.0	12.8	360
101015016	16x1.5	230.4	13.7	390
101015018	18x1.5	259.2	14.7	420
101015019	19x1.5	279.0	14.9	442
101015020	20x1.5	288.0	15.2	498
101015021	21x1.5	302.0	16.0	533
101015025	25x1.5	360.0	17.2	600
101015032	32x1.5	460.8	19.0	700
101015034	34x1.5	489.6	19.7	730
101015040	40x1.5	576.0	21.5	895
101015042	42x1.5	605.0	21.5	900
101015050	50x1.5	720.0	23.7	1060
101015056	56x1.5	806.0	25.1	1200
101015061	61x1.5	878.4	25.5	1320
101015065	65x1.5	936.0	26.8	1440
101015080	80x1.5	1152.0	29.3	1750
199000004	100x1.5	1440.0	32.7	2355
101025002	2x2.5 OZ	48.0	7.7	121
101025003	3x2.5	72.0	8.3	170
105025003	3x2.5 OZ	72.0	8.3	170
101025004	4x2.5	96.0	9.1	180
105025004	4x2.5 OZ	96.0	9.1	180
101025005	5x2.5	120.0	10.2	190
105025005	5x2.5 OZ	120.0	10.2	190
101025007	7x2.5	168.0	11.2	280
105025007	7x2.5 OZ	168.0	11.2	280
101025008	8x2.5	192.0	13.1	327
101025012	12x2.5	288.0	15.0	510
101025014	14x2.5	336.0	16.0	600
101025018	18x2.5	432.0	18.0	870
101025021	21x2.5	504.0	20.0	905
101025025	25x2.5	600.0	21.0	1140
101025032	32x2.5	768.0	24.0	1203
101025034	34x2.5	816.0	24.7	1320
101025042	42x2.5	1008.0	27.4	1610
101025050	50x2.5	1200.0	29.7	1885
101025061	61x2.5	1464.0	32.0	2475
199000465	100x2.5	2400.0	41.0	4005

Item No.	Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
101040002	2x4.0 OZ	77.0	9.3	175
101040003	3x4.0	115.0	10.1	208
101040004	4x4.0	153.6	11.0	270
101040005	5x4.0	192.0	12.3	300
101040007	7x4.0	268.8	13.6	410
101040012	12x4.0	461.0	18.0	710
101060003	3x6.0	173.0	11.8	320
101060004	4x6.0	230.4	13.1	330
101060005	5x6.0	288.0	14.4	430
101060007	7x6.0	403.2	16.0	600
101100003	3x10	288.0	14.9	543
101100004	4x10	384.0	16.5	750
101100005	5x10	480.0	18.3	930
101100007	7x10	672.0	20.2	1105
101160003	3x16	461.0	16.7	828
101160004	4x16	614.0	19.1	1050
101160005	5x16	768.0	21.5	1300
101160007	7x16	1075.0	23.7	1735
101250003	3x25	720.0	22.7	1066
101250004	4x25	960.0	23.8	1675
101250005	5x25	1200.0	26.7	2100
101250007	7x25	1680.0	31.0	2705
102350003	3x35 JB	1008.0	25.4	1590
102350004	4x35 JB	1344.0	28.3	2050
102350005	5x35 JB	1680.0	32.0	2635
102500003	3x50 JB	1440.0	30.5	2295
102500004	4x50 JB	1920.0	34.0	2800
102700003	3x70 JB	2016.0	36.0	2860
102700004	4x70 JB	2688.0	39.6	4050
102950003	3x95 JB	2736.0	41.2	4210
102950004	4x95 JB	3648.0	46.0	5500
101991203	3x120 JB	3456.0	46.8	5200
101991204	4x120 JB	4608.0	52.0	6500
101991504	4x150 JB	5760.0	59.0	7900
101991854	4x185 JB	7104.0	65.0	9050

OZ = without protective conductor, printed number coding / JB = with protective conductor, coloured cores