JZ-600 Y-CY

0.5 to 10.0 MM²

C3630 TO C3685

Applications

Wiring cable for measuring and controlling purposes in tool machinery, conveyor belts and production lines, for plant installations, air conditioning and in steel production plants and rolling mills. Suitable for installation for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms as well as outside (fixed installation). Is not suitable to be used as direct burial (suitable from an outer diameter of 20 mm for direct burial) or as underwater cable. The cores have been numbered in such a way that the numbers are easily identifiable, even if the cable has only been stripped back a few cm. The core numbers have been underlined to avoid confusion. The earth core is located in the outer layer. The black, special PVC outer sheath is resistant to the ultra violet radiation. Mainly used in South-European, Eastern and Arabian countries. Interference-free transmission of signals and pulses is assured by the high degree of screening.

Design

Unit	Properties
Conductor	Flexible Bare Copper wire, Class 5
Insulation	PVC Black cores with white continuous numbering Green-yellow grounding in the outer layer (3 conductors and above)
Inner Sheath	PVC
Braiding	Tinned copper wire
Sheath	UV&Oil Resistance PVC Standard colour: Black
Standard Put Up Length	305 meters

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

Electrical Characteristics at 20°C

Test voltage (V)	Nominal Voltage U0/U (kV)	Max. Coupling Resistant (Ohm/km)	Min. Breakdown Voltage (V)	Min Insulation Resistance (M.Ohm/km)	Max. Radiation Resistance (cJ/kg)	Temperature Range (℃)		Min Bending Radius (mm)	
						Flexing	Fixed Installation	Flexing	Fixed Installation
4000	0.6/1.0	250	8000	20	$80*10^6$	-15 to 80	-40 to 80	10*OD	5*OD

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Constructional Information

P/N	No. of conductors x cross-section in mm2	Nom. Overall Diameter (mm)	Nom Copper Weight (kg/km)	Nom. Weight (kg/km)
C3630	2×0.50	8.5	41.0	115.0
C3631	3G 0.50	8.8	45.0	127.0
C3632	4G 0.50	9.4	54.0	149.0
C3633	5G 0.50	10.2	66.0	169.0
C3634	7G 0.50	10.8	79.0	230.0
C3635	12G 0.50	14.3	137.0	386.0
C3636	18G 0.50	16.4	156.0	428.0
C3637	25G 0.50	19.3	250.0	693.0
C3638	2×0.75	8.8	46.0	128.0
C3639	3G 0.75	9.1	57.0	143.0
C3640	4G 0.75	9.9	63.0	164.0
C3641	5G 0.75	10.6	76.0	198.0
C3642	7G 0.75	11.5	100.0	232.0
C3643	12G 0.75	15.0	175.0	360.0
C3644	18G 0.75	17.2	240.0	562.0
C3645	25G 0.75	20.6	306.0	729.0
C3646	2×1.00	9.2	54.0	146.0
C3647	3G 1.00	9.8	64.0	165.0
C3648	4G 1.00	10.4	76.0	204.0
C3649	5G 1.00	11.4	89.0	224.0
C3650	7G 1.00	12.3	114.0	379.0
C3651	12G 1.00	15.9	186.0	430.0
C3652	18G 1.00	18.2	284.0	636.0
C3653	25G 1.00	22.0	387.0	837.0
C3654	2×1.50	10.4	64.0	175.0
C3655	3G 1.50	10.8	82.0	213.0
C3656	4G 1.50	11.5	99.0	247.0
C3657	5G 1.50	13.0	123.0	300.0
C3658	7G 1.50	14.2	148.0	364.0
C3659	12G 1.50	18.4	274.0	668.0
C3660	18G 1.50	21.3	386.0	844.0
C3661	25G 1.50	25.4	531.0	1356.0

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P/N	No. of conductors x cross-section in mm2	Nom. Overall Diameter (mm)	Nom Copper Weight (kg/km)	Nom. Weight (kg/km)
C3662	2×2.50	11.8	110.0	241.0
C3663	3G 2.50	12.8	148.0	266.0
C3664	4G 2.50	13.8	169.0	351.0
C3665	5G 2.50	15.0	220.0	434.0
C3666	7G 2.50	16.3	284.0	517.0
C3667	12G 2.50	21.6	470.0	862.0
C3668	18G 2.50	25.2	572.0	1236.0
C3669	25G 2.50	30.0	740.0	1659.0
C3670	2×4.0	13.6	124.0	306.0
C3671	3G 4.0	14.6	178.0	444.0
C3672	4G 4.0	15.7	234.0	489.0
C3673	5G 4.0	17.2	284.0	623.0
C3674	7G 4.0	18.9	321.0	775.0
C3675	12G 4.0	24.5	581.0	1244.0
C3676	2×6.0	14.9	176.0	433.0
C3677	3G 6.0	15.9	245.0	572.0
C3678	4G 6.0	17.4	316.0	673.0
C3679	5G 6.0	19.2	442.0	841.0
C3680	7G 6.0	20.9	530.0	1078.0
C3681	2×10.0	18.6	260.0	640.0
C3682	3G 10.0	19.8	367.0	820.0
C3683	4G 10.0	21.5	549.0	979.0
C3684	5G 10.0	23.5	604.0	1207.0
C3685	7G 10.0	25.6	820.0	2210.0

Reference Standards

EN 50363	DIN VDE 0293
IEC 60228 Class 5	EN 50525-2-51
IEC 60332-1	RoHS directives