

Manufacturers of Insulated Wire and Cable

WireTek, Inc. - Technical Datasheet - www.wiretekusa.com			
Product:	M3432-03LGE(3/20)SJ0330		
NSN:			
Description:	3 conductor AWG 20-41/36 (L) Light Duty, (G) Medium Low Temperature, General Purpose, (E) Extra Flexible Shielded Cable		
Rating:	-40°C TO +75°C / 600 VOLTS		
PRIMARY CONDUCTOR INFORMATION			
Primary Conductor Gauge Size:	AWG 20 - 41	Conductor DCR at 25°C MAX. (Ω/1000 ft)	11.3500
Primary Conductor Stranding:	41	E - Extra Flexible Stranding (E in "LGE")	
Single Wire Gauge Size / Diameter:	36		
Conductor Material Allowed:	Tin Copper		
Nominal Insulation Thickness:	.016"	L - Light Duty (L in "LGE" - Class designation 1st letter)	
Color Code of Primary Wires:	Black and White		
Alternative Color Code:	N/A		
Insulation Material(s) Allowed:	IS, IH, S(TPE-S) & O(TPE-O)	Class designation "G" - in LGE, 2nd Letter	
	IH	Low Temperature, Heat and Ozone Resistant, Ethylene-Propylene Rubber (EPM) or Ethylene-Propylene-Diene Rubber (EPDM)	
WireTek uses TPE(S)	S	Low Temperature Heat and Ozone Resistant, Styrenic Thermoplastic Elastomer (TPE-S)	
WireTek uses TPE(O)	O	Low Temperature Weather Resistant, Olefinic Thermoplastic Elastomer (TPE-O)	
OVERALL CABLING INFORMATION			
Cable Core:	3 conductors of AWG 20 are cabled together with optional fillers to make the core round		
Separator:	Polyester Tape / Clear Mylar		
Overall Braid:	85% Coverage using Tin Copper		
OVERALL JACKET INFORMATION			
Jacket Material(s) Allowed:	S (TPE-S), O(TPE-O), JN		
	JN - Moderate Low Temperature, Chlorinated Polyethylene Rubber (CM) WireTek uses TPE(O) and TPE(S) for the jacket material		
Jacket Construction:	TPE(O) jacket as per the standard		
Jacket Color:	BLACK		
Nominal Overall Cable Diameter:	.330" ±.015"		
Cable Marking / Print Legend:	Part Number and Manufacturer's name and year of manufacture		
WireTek's Marking:	M3432-03LGE(3/20)SJ0330 Marking Tape under the jacket is marked: WIRETEK, INC. + year of manufacture		
Cable Weight per 1000 feet:	55 lbs per 1000 feet approximately	Copper Weight per 1000 ft*	25 lbs
PARTIAL ELECTRICAL REQUIREMENTS			
Spark Test Voltage:	6,000 VOLTS rms	Unaged Tensile Strength (TPE-O):	1000 psi
Dielectric Withstand Voltage:	1,500 VOLTS	Unaged Minimum Elongation:	250%
CABLE IS TESTED AND CERTIFIED TO MIL-DTL-3432 LATEST REVISION			
* - WEIGHT OF CONDUCTORS AND BRAID			
NOTE: WIRETEK, INC. USES TPE(O) OR TPE(S) FOR THESE CABLES. WIRETEK'S TPE(O) IS RATED TO 125°C			