

## Manufacturers of Insulated Wire and Cable

WireTek, Inc. - Technical Datasheet - www.wiretekusa.com			
Product:	M3432-03MGF(3/12)SJ0515		
NSN:	6145-01-082-0256		
Description:	3 conductor AWG 12 - 65/30		
	(M) Medium Duty, (G) General Purpose, Medium Low Temperature (F) Flexible Unshielded Cable		
Rating:	-40°C TO +75°C / 600 VOLTS		
PRIMARY CONDUCTOR INFORMATION			
Primary Conductor Gauge Size:	AWG 12 - 65	Conductor DCR at 25°C MAX. (Ω/1000 ft)	1.8100
Primary Conductor Stranding:	65 F - Flexible Stranding (F in "MGF")		
Single Wire Gauge Size / Diameter:	30		
Conductor Material Allowed:	Bare Copper or Tin Copper (Bare Copper is common)		
Nominal Insulation Thickness:	.036" M - Medium Duty (M in "MGF" - Class designation 1st letter)		
Color Code of Primary Wires:	Black, White and Green		
Alternative Color Code:	N/A		
Insulation Material(s) Allowed:	IS-L, IH, S(TPE-S) & O(TPE-O) Class designation "G" - in MGF, 2nd Letter		
	IS-L	Low Temperature, Heat Resistant Styrene Butadiene Rubber (SBR)	
	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 12 are cabled together with optional fillers to make the core round		
Separator:	Polyester Tape / Clear Mylar		
Overall Braid:	85% minimum coverage Braid Shield		
OVERALL JACKET INFORMATION			
Jacket Material(s) Allowed:	S (TPE-S), O(TPE-O), JN		
	JN-L	Moderate Low Temperature Chloroprene Rubber	
	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:	.515" ±.020"		
Cable Marking / Print Legend:	Part Number and Manufacturer's name and year of manufacture		
WireTek's Marking:	M3432-03MGF(3/12)sj0515 Marking Tape under the jacket is marked: WIRETEK, INC. + year of manufacture		
Cable Weight per 1000 feet:	159 lbs per 1000 feet approximately		
PARTIAL ELECTRICAL REQUIREMENTS			
Spark Test Voltage:	6,000 VOLTS rms	Unaged Tensile Strength (TPE-O):	1000 psi
Dielectric Withstand Voltage:	3,000 VOLTS	Unaged Minimum Elongation:	250%
CABLE IS TESTED AND CERTIFIED TO MIL-DTL-3432 LATEST REVISION			