

## Manufacturers of Insulated Wire and Cable

WireTek, Inc. - Technical Datasheet - www.wiretekusa.com			
Product:	M3432-04HDF(4/8)1000		
NSN:			
Description:	4 conductor AWG 8 - 49 Stranded - (H) Heavy Duty (D) Low temperature, Oil and Heat resistant (F) Flexible Unshielded Cable		
Rating:	-55°C TO +75°C / 600 VOLTS		
PRIMARY CONDUCTOR INFORMATION			
Primary Conductor Gauge Size:	AWG 8 - 49	Conductor DCR at 25°C MAX. (Ω/1000 ft)	0.7150
Primary Conductor Stranding:	49 F - Flexible Stranding (F in "HDF")		
Single Wire Gauge Size / Diameter:	.0184"		
Conductor Material Allowed:	Bare Copper or Tin Copper (Bare Copper is common)		
Nominal Insulation Thickness:	.055" H - Heavy Duty (H in "HDF" - Class designation 1st letter)		
Color Code of Primary Wires:	Black, White, Green and Red		
Alternative Color Code:	N/A		
Insulation Material(s) Allowed:	S(TPE-S) & O(TPE-O) Class designation "D"-in HDF, 2nd Letter		
	S Low Temperature Heat and Ozone Resistant, Styrenic Thermoplastic Elastomer (TPE-S)		
	O Low Temperature Heat and Ozone Resistant, Olefinic Thermoplastic Elastomer (TPE-O)		
OVERALL CABLING INFORMATION			
Cable Core:	4 conductors of AWG 8 are cabled together with optional fillers to make the core round		
Separator:	Polyester Tape / Clear Mylar		
Overall Braid:	NONE		
OVERALL JACKET INFORMATION			
Jacket Material(s) Allowed:	S (TPE-S), O(TPE-O)		
	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:	1.000" ± .030" (3% of the nominal cable diameter)		
Cable Marking / Print Legend:	Part Number and Manufacturer's name and year of manufacture		
WireTek's Marking:	M3432-04HDF(4/8)1000 Marking Tape under the jacket is marked: WIRETEK, INC. + year of manufacture		
Cable Weight per 1000 feet:	508 lbs per 1000 feet approximately - with 208 lbs approx. copper weight		
PARTIAL ELECTRICAL REQUIREMENTS			
Spark Test Voltage:	7,000 VOLTS rms	Unaged Tensile Strength (TPE-O):	1000 psi
Dielectric Withstand Voltage:	3,500 VOLTS	Unaged Minimum Elongation:	250%
CABLE IS TESTED AND CERTIFIED TO MIL-DTL-3432 LATEST REVISION			