

Manufacturers of Insulated Wire and Cable

WireTek, Inc. - Technical Datasheet - www.wiretekusa.com			
Product:	M3432-03HEF(3/12)0720		
NSN:			
Description:	3 conductor AWG 12 - 65/30 - (H) Heavy Duty (E) Low temperature, Ozone, Oil, Heat and Weather resistant (F) Flexible shielded Cable		
Rating:	-65°C TO +90°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 "HEF", 3rd letter)	
Single Wire Gauge Size / Diameter:	30		
Conductor Material Allowed:	Bare Copper or Tin Copper (Bare Copper is common)		
Nominal Insulation Thickness:	.047"	H- Heavy Duty (H in "HEF" - Class designation 1st letter)	
Color Code of Primary Wires:	Black, White and Green		
Alternative Color Code:	N/A		
Insulation Material(s) Allowed:	S(TPE-S) & O(TPE-O)	Class designation "E"-in MEF, 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:	3 conductors of AWG 12 are cabled together with optional fillers to make the core round		
Separator:	Polyester Tape / Clear Mylar		
Overall Braid:	N/A		
Separator:	N/A		
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:	.720" \pm .0216"		
Cable Marking / Print Legend:	Part Number and Manufacturer's name and year of manufacture		
WireTek's Marking:	M3432-03HEF(3/12)0720 Marking Tape under the jacket is marked: WIRETEK, INC. + year of manufacture		
Cable Weight per 1000 feet:	225 lbs per 1000 feet approximately	Copper Weight: 66 lbs approx.	
PARTIAL ELECTRICAL REQUIREMENTS			
Spark Test Voltage:	7,000 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			