Cable Accessories

	Test Method	Nylon 6.6	Weather Resistant Nylon 6.6	Impact Modified Weather Resistant Nylon 6.6	Heat Stabilized Nylon 6.6	Heat Stabilized Nylon 6.6	Heat Stabilized Weather Resistant Nylon 6.6	Impact Modified Heat Stabilized Weather Resistant Nylon 6.6	Flame Retardant Nylon 6.6
Color	—	Natural, White, Black, Gray	Black	Black	Black	Natural	Black	Black	Black
Part Number Suffix (Material) Designation	—	None 20, 14	0	0	30	39	300	350	60
Mechanical Properties									
Tensile at Yield 73°F (psi)	ISO 527	12,000	12,000	7,500	12,000	12,000	12,000	8,700	11,000
Water Absorption (24 Hours)	ASTM D570	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	1.1%
Radiation Resistance Rads	—	1 x 10^5	1 x 10^5	1 x 10^5	1 x 10^5	1 x 10^5	1 x 10^5	1 x 10^5	1 x 10^5
Weathering Life Expectancy (Years)/UV Resistance**	—	1-2	7-9	7-9	4-5	1-2	7-9	7-9	1-2
Impact Resistance	—	○	○	◓	○	○	○	◓	◒
Chemical Resistance									
Salts	—	◒	◒	◒	◒	◒	◒	◒	◒
Hydrocarbons (Gas, Oil, Lubricants)	—	●	●	●	●	●	●	●	●
Chlorinated Hydrocarbons	—	◓	◓	◓	◓	◓	◓	◓	◓
Acids	—	●	●	●	●	●	●	●	●
Bases	—	◓	◓	◓	◓	◓	◓	◓	◓
Acid Rain	—	◒	◒	◒	◒	◒	◒	◒	◒
Thermal Properties									
Continuous Use Temperature Range	UL 746B	-76 °F - 185 °F -60 °C - 85 °C	-76 °F - 185 °F -60 °C - 85 °C	-76 °F - 185 °F -60 °C - 85 °C	-76 °F - 239 °F -60 °C - 115 °C	-76 °F - 239 °F -60 °C - 115 °C	-76 °F - 239 °F -60 °C - 115 °C	-76 °F - 239 °F -60 °C - 115 °C	-76 °F - 212 °F -60 °C - 100 °C
Flammability Rating	UL 94	V-2	V-2	HB	V-2	V-2	V-2	HB	V-0
Low Smoke	ASTM E662	PASS	PASS	PASS	PASS	PASS	PASS	PASS	—
Oxygen Index	BS ISO 4589	28	28	—	28	28	28	22	34
Halogen Free	IEC 60754-2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Burning Fume Toxicity	BSS-7239	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Heat Deflection Temperature at 1.9 Mpa	ASTM D648 ISO 75-1/-2	158 °F 70 °C	158 °F 70 °C	145 °F 63 °C	158 °F 70 °C	158 °F 70 °C	158 °F 70 °C	145 °F 63 °C	149 °F 65 °C
Relative Price	—	Low	Low	Low	Low	Low	Med	Med	Med

	Flame Retardant Nylon 6.6	Polypropylene	Weather Resistant Polypropylene	General Purpose ABS	Weather Resistant ABS	TEFZEL*	PEEK	Antimicrobial Metal Detectable Nylon	Metal Detectable Polypropylene	PVC	Weather Resistant Acetal
Color	Natural	Gray, White, Green	Black	Natural, White, Black, Gray	Black	Aqua Blue	Translucent Brown	Blue	Dark Blue	Light Gray, White	Black
Part Number Suffix (Material) Designation	69	14, None, 109	100	None 20, 14	0	76	71	96A	186	8, 10	130
Mechanical Properties											
Tensile at Yield 73°F (psi)	11,000	4,100	4,100	6,500	6,500	7,500	15,200	—	—	—	6,500
Water Absorption (24 Hours)	1.1%	0.1%	0.1%	0.3%	0.3%	<0.03%	0.5%	1.2%	0.1%	0.3%	<0.45%
Radiation Resistance Rads	1 X 10^5	1 X 10^6	1 X 10^6	—	—	2 x 10^8	1 x 10^9	—	1 x 10^6	—	6 x 10^5
Weathering Life Expectancy (Years)/UV Resistance**	1-2	1-2	7-9	1	7-9	>15	—	—	1	—	>20
Impact Resistance	◒	◓	◓	◓	◓	●	●	○	◓	○	◓
Chemical Resistance											
Salts	◒	●	●	●	●	●	●	◒	●	◒	○
Hydrocarbons (Gas, Oil, Lubricants)	●	○	○	●	●	●	●	●	○	●	●
Chlorinated Hydrocarbons	◓	○	○	●	●	●	●	◓	○	◓	◓
Acids	●	●	●	○	○	●	○	●	●	●	●
Bases	◓	●	●	●	●	●	●	◓	●	◓	●
Acid Rain	◒	●	●	●	●	●	◓	◒	●	◓	◒
Thermal Properties											
Continuous Use Temperature Range	-76 °F - 212 °F -60 °C - 100 °C	-76 °F - 239 °F -60 °C - 115 °C	-76 °F - 239 °F -60 °C - 115 °C	-76 °F -158 °F -60 °C - 70 °C	-76 °F -158 °F -60 °C - 70 °C	-76 °F - 338 °F -60 °C - 170 °C	-76 °F - 464 °F -60 °C - 240 °C	-76 °F - 185 °F -60 °C - 85 °C	-76 °F - 239 °F -60 °C - 115 °C	-40 °F - 122 °F -40 °C - 50 °C	-76 °F - 185 °F -60 °C - 85 °C
Flammability Rating	V-0	HB	HB	HB	HB	V-0	V-2	HB	HB	V-0	HB
Low Smoke	—	—	—	—	—	—	PASS	—	—	—	—
Oxygen Index	34	—	—	18-20	18-20	30	35	—	—	—	—
Halogen Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Burning Fume Toxicity	PASS	—	—	—	—	—	—	—	—	—	—
Heat Deflection Temperature at 1.9 Mpa	149 °F 65 °C	122 °F 50 °C	122 °F 50 °C	210 °F 99 °C	210 °F 99 °C	—	313 °F 156 °C	—	—	—	147 °F 64 °C
Relative Price	Med	Med	Med	Low	Low	High	High	Low	Med	Low	Med

*TEFZEL is a registered trademark of The Chemours Company
**Weather Life Expectancy is an estimated life expectancy and not a guarantee of life expectancy

Recommendation Legend	Highest	High	Acceptable	Low	Lowest
	●	◓	○	◒	●

Properties shown are based on data obtained from third party resources and are subject to normal manufacturing tolerances.

Material Selection Guide

	Test Method	Nylon 6.6	Weather Resistant Nylon 6.6	Impact Modified Weather Resistant Nylon 6.6	Heat Stabilized Nylon 6.6	Heat Stabilized Nylon 6.6	Heat Stabilized Weather Resistant Nylon 6.6	Impact Modified Heat Stabilized Weather Resistant Nylon 6.6	Flame Retardant Nylon 6.6
Color	—	Natural, White, Black, Gray	Black	Black	Black	Natural	Black	Black	Black
Part Number Suffix (Material) Designation	—	None 20, 14	0	0	30	39	300	350	60
4-Way and Multiple Bridge Mounts									
ABMQS									
ABM1M		X	X						
ABMM									
ABM2S									
ABM100		X	X						
ABM112		X	X						
ABM3H		X	X						
ABM4H		X	X						
SGABM20		X	X				X		
SGABM25		X	X				X		
SGABM30		X	X				X		
SGABM40		X							
SGABM50		X							
Aerial Support Ties									
AST									
Bevel Entry Clips									
BEC		X							
BECP		X							
Cord Clips, Cable Clips and Holders									
ACC		X	X				X		
LPFCM		X							
FCC									
AJC									
A1C									
A2C									
AMC25									
VCC		X							
PMCC		X	X						
Tie Anchor Mounts, Stud Mounts, Low Profile Mounts									
TM		X	X		X	X			
SGTM		X	X						
TA1		X	X		X				
TA2		X							
SGTM		X	X						
TMEH			X					X	
TMSTLHS			X						
TMSTHS				X					
LPMM / LPMS		X							

Flame Retardant Nylon 6.6	Polypropylene	Weather Resistant Polypropylene	General Purpose ABS	Weather Resistant ABS	TEFZEL	PEEK	Antimicrobial Metal Detectable Nylon	Metal Detectable Polypropylene	PVC	Weather Resistant Acetal
Natural	Gray, White, Green	Black	Natural, White, Black, Gray	Black	Aqua Blue	Translucent Brown	Blue	Dark Blue	Light Gray, White	Black
69	14, None, 109	100	None 20, 14	0	76	71	96A	186	8, 10	130
			X							
			X	X						
			X	X						
X										
X										
		X								
X		X			X	X	X	X		
X										
	X	X								

Table continues on page 3

Material Selection Guide *(continued)*

	Test Method	Nylon 6.6	Weather Resistant Nylon 6.6	Impact Modified Weather Resistant Nylon 6.6	Heat Stabilized Nylon 6.6	Heat Stabilized Nylon 6.6	Heat Stabilized Weather Resistant Nylon 6.6	Impact Modified Heat Stabilized Weather Resistant Nylon 6.6	Flame Retardant Nylon 6.6	Flame Retardant Nylon 6.6	Polypropylene	Weather Resistant Polypropylene	General Purpose ABS	Weather Resistant ABS	TEFZEL	PEEK	Antimicrobial Metal Detectable Nylon	Metal Detectable Polypropylene	PVC	Weather Resistant Acetal
Color	—	Natural, White, Black, Gray	Black	Black	Black	Natural	Black	Black	Black	Natural	Gray, White, Green	Black	Natural, White, Black, Gray	Black	Aqua Blue	Translucent Brown	Blue	Dark Blue	Light Gray, White	Black
Part Number Suffix (Material) Designation	—	None 20, 14	0	0	30	39	300	350	60	69	14, None, 109	100	None 20, 14	0	76	71	96A	186	8, 10	130
Harness Clips, Edge Clips																				
HCMP		X			X															
HCME					X															X
UCC																				X
Fixed Diameter Clamps, Adjustable Clamps																				
CCS		X	X																	
CCH		X	X																	
Pan-Clamp (PC)				X																
ARC											X									
Latching Wire Clips, Mounts and Holders																				
LWC		X																		
FCM		X																		
FCH		X																		
CH105		X																		
LC3, LC5, LC10																			X	
Circuit Board Posts																				
CBP		X																		
Epoxy Applied Mounts																				
EMS		X	X																	
Masonry Push Mounts, Fir Tree Push Mounts, Push Button Mounts																				
MPMS/WH				X																
HVMPM				X																
SGMPMS				X																
PUM			X		X															
PUME								X												
PM2H25		X	X		X															
PBMS		X	X		X															
Multiple Tie Plates																				
MTP		X																		
MTPC						X														
Push Barb Mounts																				
TM2PWH		X																		
PWMS		X	X																	

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