

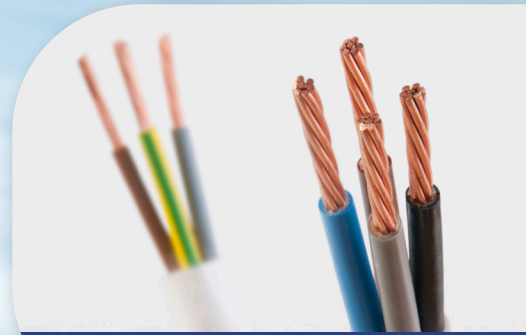
HALGUARD®

Low Smoke, Halogen-Free Flame Retardant Compounds

Offer An Excellent Balance of Properties for a
Wide Variety of Wire & Cable Applications

Highly Flame
Retardant Enabling
Compliance With a Broad
Range of International
Flame Tests

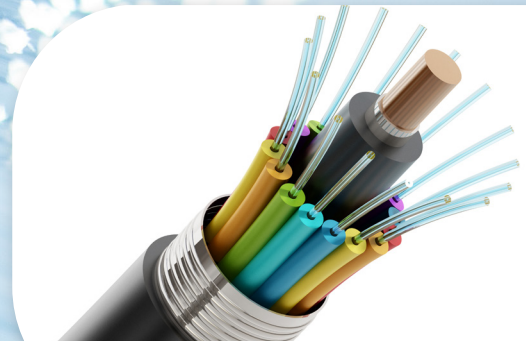
- Optimized mechanical performance
- Softer compound for more flexible cable
- Ease of extrusion processing



Appliance Wire



Electronic Cable

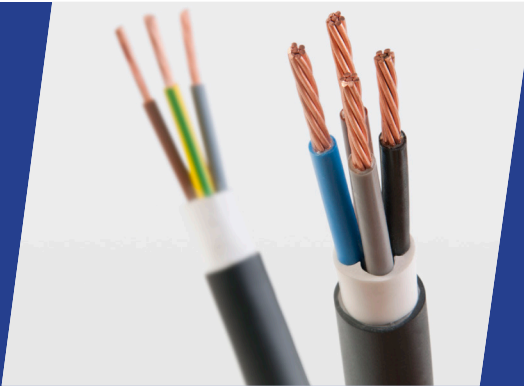


Fiber Optic Cable



Transit Cable

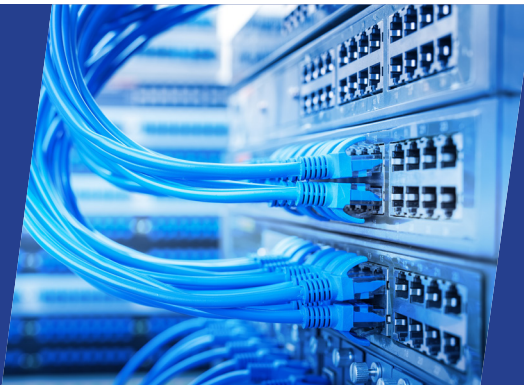
APPLIANCE WIRE



- Halogen-free Thermoplastic Elastomers (TPE) for UL 62 Flexible Cord, UL 758 Appliance Wire
- Oil Resistant, 7 days @ 60 °C in IRM 902
- Deformation & Heat Shock Resistant @ 150 °C
- Elongation at Break > 200%

Compound Property	Test Method	Halguard E 59001*	Halguard E 59002*
Temperature Rating, °C	ASTM D794	105	105
Specific Gravity	ASTM D792	1.12	1.13
Flexural Modulus, MPa	ASTM D790	125	111
Tensile Strength, MPa	ASTM D638	14.5	10.6
Tensile Elongation, %	ASTM D638	530	530
Brittleness Temperature, °C	ASTM D746	-49	-38
Oxygen Index, %	ASTM D2863	30	33
Sunlight Resistance, 720 hours	UL 1581	Yes	Yes
Oil Resistance	UL 62	Yes	No

ELECTRONIC CABLE

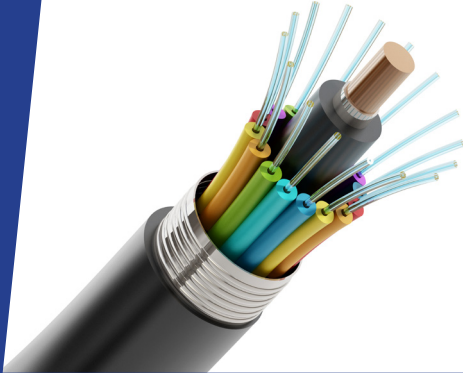


- Capable of Enabling Compliance to a Variety of Flame Tests: Riser, FT4, VW-1, CPR Class B/C

Compound Property	Test Method	Halguard 58100*	Halguard 58240*	Halguard 58300*	Halguard 58625B
Temperature Rating, °C	ASTM D794	105	105	105	105
Specific Gravity	ASTM D792	1.56	1.60	1.61	1.66
Flexural Modulus, MPa	ASTM D790	112	81	138	219
Tensile Strength, MPa	ASTM D638	18.6	14.8	11.8	10.5
Tensile Elongation, %	ASTM D638	160	160	160	126
Brittleness Temperature, °C	ASTM D746	-60	-42	-22	-34.5
Oxygen Index, %	ASTM D2863	39	43	49	50.5
Sunlight Resistance, 720 hours	UL 1581	Yes	Yes	Yes	No

*UL AATJ2 recognized as Halogen Free.

FIBER OPTIC



- Low Shrinkage to Maintain Signal Integrity
- Low Coefficient of Friction for Easy Installation
- Capable of CPR Class B Compliance

Compound Property	Test Method	Halguard 58240*	Halguard 58350*	Halguard 58355	Halguard 58625
Temperature Rating, °C	ASTM D794	105	105	105	105
Specific Gravity	ASTM D792	1.60	1.62	1.61	1.66
Flexural Modulus, MPa	ASTM D790	81	271	322	200
Tensile Strength, MPa	ASTM D638	14.8	11.6	13.5	12.2
Tensile Elongation, %	ASTM D638	160	140	124	140
Brittleness Temperature, °C	ASTM D746	-42	-20	-17	-29
Oxygen Index, %	ASTM D2863	43	46	43	50
Sunlight Resistance, 720 hours	UL 1581	Yes	Yes	Yes	Yes

TRANSIT CABLE



- Enables Compliance with Multiple Transit Agency Specifications including NYCTA

Compound Property	Test Method	Halguard 58130	Halguard 58600*
Temperature Rating, °C	ASTM D794	105	105
Specific Gravity	ASTM D792	1.50	1.56
Flexural Modulus, MPa	ASTM D790	154	63
Tensile Strength, MPa	ASTM D638	15.0	12.7
Tensile Elongation, %	ASTM D638	200	220
Brittleness Temperature, °C	ASTM D746	-52	-45
Oxygen Index, %	ASTM D2863	37	40
Sunlight Resistance, 720 hours	UL 1581	Yes	Yes

*UL AATJ2 recognized as Halogen Free.



Vinyl Manufacturing Sites

About Teknor Apex

The Teknor Apex Company, a privately-owned company founded in 1924, is one of the world's leading customer-specific plastic compounders. Teknor Apex produces flexible and rigid vinyl, thermoplastic elastomers, polyamides, specialty compounds, color masterbatches, chemicals and garden hoses.

The company is based in Pawtucket, RI, USA. It operates fourteen production plants worldwide: in the United States, Belgium, Germany, China and Singapore.

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Americas

505 Central Avenue
Pawtucket
Rhode Island 02861
+1-401-725-8000

Europe

Mijnweg 1
6167AC Geleen
Netherlands
+31-46-7020950

Asia

41 Shipyard Road
Singapore 628134
+65-6265-2544

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