

Cable jacket materials

Designation	Polyolefine flame retardant	Polyvinylchloride	Polyethylene		Polyurethane flame retardant	Polyurethane	Polybutylen-terephthalate	Thermoplastic elastomer
Abbreviation	LSFH™	PVC	LDPE	HDPE	PUR/TPU	PUR/TPU	PBT	TPE
HUBER+ SUHNER code	H	T	Y	V	U	Z	N	X

Combustion properties

Halogen free	yes	no	yes	yes	yes	yes	yes
Flame retardant	yes	yes	no	yes	no	no	no
Smoke emission	low	strong	low	strong	strong	strong	medium
Corrosive gases	low	high	no	low	low	no	no

Mechanical properties

Abrasion resistance	low	medium	med.	good	good	good	good	good
Flexibility	high	high	med.	low	high	high	low	medium
Hardness	medium	soft	med.	hard	soft	soft	hard	hard

Resistance against

Oil/fuel ¹⁾	good/satisfactory ²⁾	satisfactory	good /satisfactory	satisfactory	good	good	good
Water	good/satisfactory ²⁾	good	very good	satisfactory	good	satisfactory	satisfactory
Weathering ³⁾	good	good	very good	good	very good	satisfactory	good

Information given in this table is based on plastic materials used for cable jackets. Properties and resistance for cables cannot be derived from it.

¹⁾ This information is meant as decision guidance to the best of our today's knowledge, it is based on typical values. The resistance of cables has to be verified due to the wide variety of oils and fuels.

²⁾ Depending on the cable design different types of LSFH™ materials are used for the cable jacket.

³⁾ The UV resistance depends highly on the colour of the plastic used, black offers the best resistance.