

CONLink®, CONFill®, CONGuard® LSF CPR SOLUTIONS

Application	Reference	Tensile Strength MPa	Elongation %	LOI %	Mooney Viscosity	CPR Class indication (Dependent on construction)	Comments
Communication cables							
Data	CONGuard®S6615 LDD	12	180	40	42	Class DcaS1D1	Low drool, high speed, good diameter control
Data	CONGuard®S6625 S LDD	12,5	180	36	33	Class EcaS1D1	Easy processing low drool compound with good LOI. Designed for shotgun profiles.
Data	CONGuard®S6640S N	12	200	38	42	Class CcaS1D0	Very good char forming compound with Char promoter.
Data	CONGuard®S6650S LDD UV	12,5	160	45	42	Class B2caS1D1	High flame retardancy. Good char.
Data	CONGuard®S6545 N	12	150	43	40	Class B2caS1D0	Good flame retardancy with char promoter, zero dripping
Flexible cords	CONGuard®S6680	11	250	32	42	Class EcaS1D1	Highly flexible PVC replacement. Passes 30,000 cycle flex test.
Optical fibre tight buffer	CONGuard®I4141	10,5	185	33	45	Class Eca, Dca	Designed for thin wall tight buffer with low shrinkage.
Optical fibre sheathing	CONGuard®S6610LDD UV	11	170	37	40	Class DcaS1D1	High speed, low drool, low shrinkage, good diameter control +UV additive
Optical fibre tight buffer	CONGuard®I6541 LDD TB	12	170	45	40	Class B2caS1D1	Very low shrinkage good adhesion and ovality. No die drool. Thin wall
Optical fibre sheathing	CONGuard®S6615LDD UV	12	180	40	42	Class DcaS1D1, Class CcaS1D1	High speed, low drool, low shrinkage, good diameter control +UV additive
Optical fibre sheathing	CONGuard®S8541 LDD UV	12	170	43	40	Class C2caS1D1	High fire performance designed to meet C2 at tight buffer constructions, very low shrinkage.
Optical fibre sheathing	CONGuard®S6650 MAA LDD UV	12,5	160	50	42	Class B2caS1D1	Premium fire performance designed to meet B2 at loose tube constructions. Good char.
LV Power cables							
Thermosetting insulation	CONLink®I4100	14,5	220	28	–	Class D-B2	Ambient cure cross-linkable fire retardant insulation material designed to meet BS 7211.
Thermosetting insulation	CONLink®I4030	12,5	200	19	–	Class D-B2	Ambient cure crosslinking insulation material with reduced combustible content
Fire integrity/House wiring	CONFill®640	–	–	45	25	Class D-C	Fire retardant bedding compound, less sticking on XLPE
Fire integrity/House wiring	CONFill®5212	1	40	60	30	Class D-B2	Premium fire retardant bedding compound, less sticking on XLPE
Fire integrity/House wiring	CONFill®5214	2	100	80	90	Class D-B2	Premium fire retardant bedding compound, non sticking on XLPE
Fire integrity/House wiring	CONFill®5361	1	50	80	45	Class D-B2	Premium fire retardant bedding compound
Fire integrity/House wiring	CONGuard®S6625 S	13,5	200	36	33	Class DcaS1D1	Easy flow HM4 meeting LTS1-4. Good crack resistance
Fire integrity/House wiring	CONGuard®S6610	11	190	37	36	Class CcaS1D1	Good general purpose easy flow material meeting LTS1-4.
Fire integrity/House wiring	CONGuard®S6640S N	12	200	38	42	Class CcaS1D0	Very good char forming compound with Char promoter.
Fire integrity/House wiring	CONGuard®S8541S LDD	12	170	43	40	Class C2caS1D1	Good general purpose easy flow material meeting LTS1-4. Good stress crack resistance.
Fire integrity/House wiring	CONGuard®S6650S LDD UV	12,5	160	50	42	Class B2caS1D1	High flame retardancy designed to meet BS 7629 CWZ. Good char. Flexible
Fire integrity/House wiring	CONGuard®S6545 N	12	150	43	40	Class B2caS1D0	High flame retardancy with char promoter

Class	Description
A	Incombustible – EN ISO 1716.
B1	Bunched cable flame test with backboard – flame spread <1.75 meters.
B2	Bunched cable flame test without backboard – flame spread <1.5 meters.
C	Bunched cable flame test without backboard – flame spread <2.0 meters.
D	Bunched cable flame test – no flame spread limit – total heat release at 20 minutes < 70 MJ.
E	Single cable flame test.
F	No performance determined.

Sub categories	
S	Smoke generation.S1 mandatory for LSF cables
D	Number of droplets during burning
D0	Zero droplets
D1	One droplet