



Connect and Protect

TransTechnical Solutions

Technical Data Sheet

Non-Metallic Systems

NC Standard Weight Slit - General Purpose

Technical Characteristics

Conforms to	ADR Approved CE mark to the low voltage directive RoHS Compliant to 2011/65/EU Conforms with end of life vehicle directive (ELV) EU200/53/ EC
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Approvals and Standards



Degree of mechanical protection	High flexibility & fatigue life - Very High abrasion, impact and shock resistance
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Degree of protection	IP40 - Hinged fittings
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UV protection	Very High (Black), Medium (Red and Orange)
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Finish	Black (BL) , Red & Orange [On Request]
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Application	General-purpose and retro fit automotive harness applications
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Normal operating temperature range	Application	Min Temp	Max Temp
	Static	- 40°C	+120°C
	Dynamic	- 5°C	+120°C

For use with - Fitting range	For use with hinged fittings in the H-flex range
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Fire performance	Test Standard	Performance Rating	<i>Self Extinguishing Low smoke toxicity & Halogen Free</i>
	IEC 61386-1	Pass	
	UL94	HB	
	FMVSS302	0mm/min	

Testing data	See page 3 & 4
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Type of material	Polyamide (Nylon) PA 6 - Heat and UV stabilised
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Image



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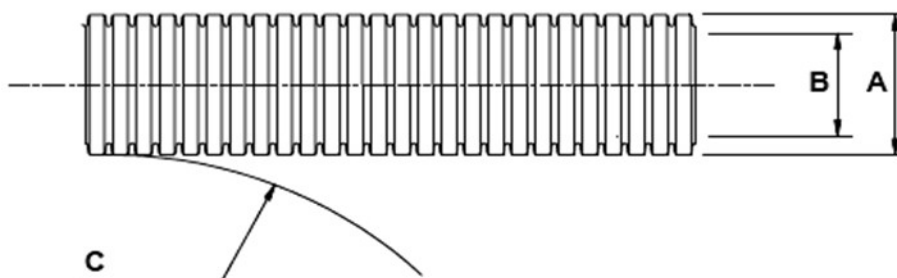
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Technical & Dimensional Data

Part No.	Conduit Size		Dimensions				Average Weight
	(NC)	(NW)	(A) Outside Diameter (Mid size)	(B) Minimum Bore	(C) Minimum Static Bend Radius	Reel Length (m)	(Kg/100m)
NC06-S	6	4.5	7.2mm	4.4mm	10mm	100	0.9
NC08-S	8	7.5	10.0mm	6.2mm	20mm	100	1.9
NC10-S	10	8.5	11.6mm	8.0mm	23mm	100	2.1
NC12-S	12	10	13.1mm	9.6mm	26mm	100	2.4
NC16-S	16	13	15.9mm	11.7mm	32mm	50	4.1
NC20-S	20	17	21.2mm	16.3mm	42mm	50	5.6
NC25-S	25	22	25.6mm	21.3mm	52mm	50	7.4
NC28-S	28	23	28.4mm	22.5mm	57mm	50	9
NC32-S	32	29	34.5mm	28.6mm	79mm	50	12.2
NC40-S	40	36	42.4mm	34.8mm	85mm	25	14
NC50-S	50	48	54.3mm	46.2mm	90mm	25	20
To order quote part number & reel length for black e.g. TNC20-S/50m							



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Mechanical Properties

Test Type	Methods / Standards	Requirements	Value
Crush Strength	IEC61386-1	Fitting Pull off (Hinged Fitting)	>100N
Tensile Strength			
Impact Strength @ 23 °C			
Impact Strength @-5 °C	IEC61386-23	5000 cycles minimum	4xOD
Dynamic Bend radius @-5 °C			
Cold Bend @ -40 °C			
	NFR13-903	2xOD	Pass

Thermal Properties

Test Type	Methods / Standards	Requirements	Value
Minimum Temperature	IEC61386-23	Static Permanent Use	-40°C
Minimum Temperature		Dynamic Use (5000 cycles)	-5°C
Maximum Temperature		Permanent Use (30,000) Hours	120°C
Short Term Temperature		Temporary Use (3,000) Hours	150°C
Short Term Temperature		Temporary Use (200) Hours	170°C

Chemical Resistance Chart

Key:		Astm No.1		Diesel oil		Methyl Bromide		Sulphur Dioxide (Gas)
Suitable :		Astm No.2		Diethylamine		MEK		Sulphuric Acid (10%)
Limited Suitability :		Astm No.3		Ethanol		Nitric Acid (10%)		Sulphuric Acid (70%)
Unsuitable :		Acetic Acid (10%)		Ether		Nitric Acid (70%)		Toluene
Not Tested :		Acetone		Ethylamine		Oxalic Acid		Transformer Oil
		Aluminium Chloride		Ethylene Glycol		Ozone (Gas)		1,1,1-Trichloroethane
		Aniline		Ethyl Ethanoate		Paraffin oil		Trichloroethylene
		Benzaldehyde		Freon 32		Petrol		Turpentine
		Benzene		Hydrochloric Acid (10%)		Phenol		Vegetable Oil
		Carbon tetrachloride		Hydrochloric Acid (36%)		Sea Water		Vinyl Acetate
		Chlorine water		Hydrogen Peroxide (35%)		Silver Nitrate		Water
		Chloroform		Hydrogen Peroxide (87%)		Skydrol		White Spirit
		Citric Acid		Lactic Acid		Sodium Chloride		Zinc Chloride
		Copper Sulphate		Lubricating oil		Sodium Hydroxide (10%)		
		Cresol		Methanol		Sodium Hydroxide (60%)		

ADHERENCE TO THE CURRENT WIRING REGULATIONS BS7671 OR NEC WIRING REGULATIONS (FOR USA) IS STRONGLY ADVISED.

MINIMUM BEND RADIUS FOR FLEXING IS DEPENDANT UPON MINIMUM TEMPERATURE, BENDING FREQUENCY AND CHEMICAL ENVIRONMENT.

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Flammability

Test Type	Method / Standard	Requirement	Result	Unit
Oxygen Index	ISO 4589-2	% Oxygen to support combustion	23	%
Flammability	UL94	Vertical (V0,V2) or Horizontal (HB)	HB	
Flammability	BS EN IEC 61386-1	1Kw Burner @ 45° Vertical burn	Pass	Pass/Fail
Flammability	FMVSS3042	≤100mm/min	0	mm/min

Toxicity

Test Type	Method / Standard	Requirement	Result	Unit
Halogen Free		<0.5%	Pass	Pass/Fail
Phosphorous Free		<0.5%	Pass	Pass/Fail
Sulphur Free		<0.5%	Pass	Pass/Fail

Pre Test Conditions

Duration	Standard	Temperature	Relative Humidity
168 (Hours)	BS EN IEC 61386-1	23 (°C)	50 (%)