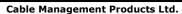




Tro Standard Worgint Ont	Scholar Larpes	SPECIALIST CON	IDUII 3131EIVI3			
Technical Characteristics						
Conforms to	ADR Approved CE Mark to the low voltage directive RoHS Compliant to 2011/65/EU Conforms with end of life vehicle directive (ELV)EU200/53/EC					
Approvals and Standards	CE ROHS					
Degree of mechanical protection	High flexibility & fatigue life	fe - Very High abrasion, impact	and shock resistance			
Degree of protection	IP40 - Hinged fittings					
UV protection	Very High (Black) Mediun	n (Grey, Orange & Red)				
Finish	Black (BL), Grey (RAL7031), Red (RAL3031) & Orange (RAL2003) (Other colours available on request)					
Application	General-purpose and retr	o fit automotive harness applica	ations			
Normal operating temperature range	Application Min Temp Max Temp  Static - 40°C +120°C  Dynamic - 5°C +120°C					
For use with - Fitting range		tings in the Harnessflex range				
Fire performance	Test Standard	Performance Rating				
	IEC 61386-1	Pass				
	UL94	НВ	Self Extinguishing			
	FMVSS302	0 mm/min	Low smoke toxicity & Halogen Free			
Testing data	Click or See pages 3 & 4					
Type of material	Polyamide (Nylon) PA 6 - heat and UV stabilised					
Image	000000000000000000000000000000000000000	d .				





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 $\label{thm:commutation} \textbf{Technical Support e-mail: } \underline{cmg.conduitsystems@tnb.com} - \underline{www.harnessflex.com}$ 



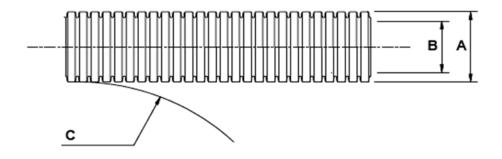




#### **Technical & Dimensional Data**

Part No.	Condui	t Size	ze 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	100	4.1	
NC18-S	18	14	18.5mm	14.0mm	37mm	50	4.6	
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	9.0	
NC32-S	32	29	34.5mm	28.6mm	79mm	50	12.2	
NC40-S	40	36	42.4mm	34.8mm	85mm	25	14.0	
NC50-S	50	48	54.3mm	46.2mm	90mm	25	20.0	

To order quote part number & reel length for black e.g. NC20-S/50m or for all other colours add colour and reel length e.g. orange NC20-S/OR/50M red NC20-S/RD/50M or green NC20-S/GN/50M









#### **Mechanical Properties**

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

#### **Thermal Properties**

Test Type	Methods / Standards	Requirements	Value
Minimum Temperature		Static Permanent Use	-40°C
Minimum Temperature	IEC61386-23	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**

	Astm No.1		Diesel oil	Methyl Bromide	Sulphur Dioxide (Gas)
	Astm No.2	0	Diethylamine	MEK	Sulphuric Acid (10%)
Key:	Astm No.3	■ E	thanol	Nitric Acid (10%)	Sulphuric Acid (70%)
	Acetic Acid (1	0%) 🔘 E	ther	Nitric Acid (70%)	Toluene
Suitable :	Acetone	■ E	Ethylamine	Oxalic Acid	Transformer Oil
	Aluminium Ch	loride E	Ethylene Glycol	Ozone (Gas)	1,1,1-Trichloroethane
Limited Suitability:	Aniline	<u></u>	Ethyl Ethanoate	Paraffin oil	Trichloroethylene
·	Benzaldehyde	- F	reon 32	Petrol	Turpentine
Unsuitable :	Benzene	□	lydrochloric Acid (10%)	Phenol	Vegetable Oil
	Carbon tetracl	nloride	lydrochloric Acid (36%)	Sea Water	Vinyl Acetate
Not Tested :	Chlorine water	· O F	lydrogen Peroxide (35%)	Silver Nitrate	Water
	Chloroform		lydrogen Peroxide (87%)	Skydrol	White Spirit
	Citric Acid	<u> </u>	actic Acid	Sodium Chloride	Zinc Chloride
	Copper Sulpha	ate L	ubricating oil	Sodium Hydroxide (10%)	
	Cresol	<u></u>	/lethanol	Sodium Hydroxide (60%)	

The information above is given as a guide only and is based on published technical data and experience. The chemical resistance of the above products is dependent on factors such as chemical exposure, concentration of the chemical and temperature. The above chemicals are valid for a temperature of 23°C. Use of the above table is at the users own discretion and risk. Those using it must satisfy themselves that their application presents no health and safety risks. The end user should assess compatibility with their application and contact Thomas & Betts for further information.

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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### NC Standard Weight Slit - General Purpose

### **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)	НВ	
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 (%)

