

Description: 7/C composite cable consist of 2/Pairs 20 AWG shielded and 1/Pair 20 AWG Unshielded and 1/C # 20 AWG; HD-PE Insulation, Overall Nylon tape and Polyurethane Jacket

A. Construction

- 1.0 Element #1: 2/Prs 20 AWG individually shielded (CAN & Video)
 - 1.1 Conductor: 20 AWG 26/34 Tinned Copper; OD: .038" Nom.
 - 1.2 Insulation: .011" Wall; HD-PE; OD: .060" Nom.
 - 1.3 Color Code: P1: Yellow, Green P2: White, Blue
 - 1.4 Shield: Aluminum/Polyester Tape; 100% Shield, (Alum Side-out)
 - 1.5 Cable: Cabled at: 1.125" Left Hand Lay (10.7 twist per foot)
- 2.0 Element #2: 1/Pr 20 AWG (Power)
 - 2.1 Conductor: 20 AWG 26/34 Tinned Copper; OD: .038" Nom.
 - 2.2 Insulation: .011" Wall; HD-PE; OD: .060" Nom.
 - 2.3 Color Code: C1: Red C2: Black
 - 2.4 Cable: Cabled at: 1.125" Left Hand Lay (10.7 twist per foot)
- 3.0 Element #3: 1/C 20 AWG (Signal)
 - 3.1 Conductor: 20 AWG 26/34 Tinned Copper; OD: .038" Nom.
 - 3.2 Insulation: .011" Wall; HD-PE; OD: .060" Nom.
 - 3.3 Color Code: C1: White
- 4.0 Final Assembly: Element #1, #2 & #3 cabled with common drain; OD: .258" Nom.
 - 4.1 Filler: Cotton fillers in core and Fr-Poly fillers as needed for roundness
 - 4.2 Drain Wire: 20 AWG 26/34 Tinned Copper
 - 4.3 Binder: Nylon Tape Wrap, 35% Min Overlap;
 - 4.4 Tape: Paper Tape; 25% Nom Overlap;
 - 4.5 Jacket: .035" Wall; FR-Polyurethane (Pressured); Color: Black Matt finish
OD: .325" +/- .010"
- 5.0 Marking: Surface Printed White Ink:
E76328 AWM 80C 300V VW-1 -- LL79301 CSA AWM I/II A/B 80C 300V
FT-1 -- ROHS/CE -- MADE IN USA (DDMMYY)

Approved
Kurt S. [Signature]
2-19-2016

REV	DATE	CHANGE DETAIL	Title:	
		ref. NACCO P/N: TBD -RD3609-5	 General Cable 20 Forge Park, Franklin, Ma 02038 Phone: 508-541-7100 Fax: 508-541-8122	
			ZO20C0071897A**	
			Description: 3/Prs. 20 AWG + 1/C 20 AWG Special Application Mast Cable	
			Drawn By:	gt
B	01/14/16	Revise dwg and color code- gt	Mktg Approval:	
A	11/25/15	Initial Release / GT	Final Approval:	G. Tokatli
			 Directive 2011/65/EU	
			PAGE 1 of 2	

General Cable reserves the right to modify this information without prior notification and does not make a warranty or representation of any kind, whether implied or expressed with respect to the information contained herein. General Cable assumes no risks, and will not be liable for direct or indirect, special, incidental or consequential damages, any defect or personal injury resulting from the use of this document.

** Proposal #2 with concentric robust larger diameter**

B. Electrical & Mechanical Characteristics:



- 1.0 Conductor DCR: 11.4 Ohms/Mft Nom.
- 2.0 Capacitance (#1): 29.0 Pf/ft Nom. (Mutual)
52.0 pf/ft Nom. (Cond-Shield)
- 3.0 Impedance (#1): 53.0 Ohm Nom.
- 4.0 Shield DCR (#1): 9.50 Ohms/Mft Nom. (foil shield + drain wire)
- 5.0 Velocity of Propagation: 66% Nom
- 6.0 Temperature and Voltage Rating: -40C to +80C / 300V Max

C. Agencies Approval: UL Subject 758; AWM Style 20233 80C 300V VW-1 and CSA C22.2 No.210-05 AWM I/II A/B FT-1

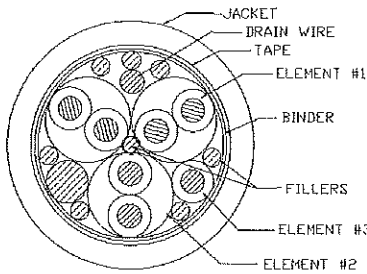
D. Compliance: RoHS/CE Compliant

E. Cable Weight: 53.0 Lbs./Kft Nom.

DRAFT

REV	DATE	CHANGE DETAIL			General Cable 20 Forge Park, Franklin, Ma 02038 Phone: 508-541-7100 Fax: 508-541-8122	
		ref. NACCO P/N: TBD -RD3609-5	Title:		ZO20C0071897A**	
			Description:		3/Prs. 20 AWG + 1/C 20 AWG Special Application Mast Cable	
			Drawn By:	gt		
B	01/14/16	Revise dwg and color code- gt	Mktg Approval:			
A	11/25/15	Initial Release / GT	Final Approval:	G. Tokali	PAGE 2 of 2	

General Cable reserves the right to modify this information without prior notification and does not make a warranty or representation of any kind, whether implied or expressed with respect to the information contained herein. General Cable assumes no risks, and will not be liable for direct or indirect, special, incidental or consequential damages, any defect or personal injury resulting from the use of this document.



Description: 7/C composite cable consist of 2/Pairs 20 AWG shielded and 1/Pair 20 AWG Unshielded and 1/C # 20 AWG; HD-PE Insulation, Overall Nylon tape and Polyurethane Jacket

A.

Construction

- 1.0 Element #1: 2/Prs 20 AWG individually shielded (CAN & Video)
 - 1.1 Conductor: 20 AWG 26/34 Tinned Copper; OD: .038" Nom.
 - 1.2 Insulation: .011" Wall; HD-PE; OD: .060" Nom.
 - 1.3 Color Code: P1: Yellow, Green P2: White, Blue
 - 1.4 Shield: Aluminum/Polyester Tape; 100% Shield, (Alum Side-out)
 - 1.5 Cable: Cabled at: 1.125" Left Hand Lay (10.7 twist per foot)

- 2.0 Element #2: 1/Pr 20 AWG (Power)
 - 2.1 Conductor: 20 AWG 26/34 Tinned Copper; OD: .038" Nom.
 - 2.2 Insulation: .011" Wall; HD-PE; OD: .060" Nom.
 - 2.3 Color Code: C1: Red C2: Black
 - 2.4 Cable: Cabled at: 1.125" Left Hand Lay (10.7 twist per foot)

- 3.0 Element #3: 1/C 20 AWG (Signal)
 - 3.1 Conductor: 20 AWG 26/34 Tinned Copper; OD: .038" Nom.
 - 3.2 Insulation: .011" Wall; HD-PE; OD: .060" Nom.
 - 3.3 Color Code: C1: White

- 4.0 Final Assembly: Element #1, #2 & #3 cabled with common drain; OD: .258" Nom.
 - 4.1 Filler: Cotton fillers in core and Fr-Poly fillers as needed for roundness
 - 4.2 Drain Wire: 20 AWG 26/34 Tinned Copper
 - 4.3 Binder: Nylon-Tape Wrap, 35% Min Overlap;
 - 4.4 Tape: Paper Tape; 25% Nom Overlap;
 - 4.5 Jacket: .035" Wall, FR-Polyurethane (Pressured); Color: Black Matt finish
OD: .325" +/- .010"

- 5.0 Marking: Surface Printed White Ink:
E76328 AWM 80C 300V VW-1 -- LL79301 CSA AWM I/II A/B 80C 300V
FT-1 -- ROHS/CE -- MADE IN USA (DDMMYY)

Approved
Kurt G. Giff
2-19-2016

REV	DATE	CHANGE DETAIL		
		ref. NACCO P/N: TBD -RD3609-5	<p>General Cable 20 Forge Park, Franklin, Ma 02038 Phone: 508-541-7100 Fax: 508-541-8122</p>	
			Title:	ZO20C0071897A**
			Description:	3/Prs. 20 AWG + 1/C 20 AWG Special Application Mast Cable
			Drawn By:	gt
B	01/14/16	Revise dwg and color code- gt	Mktg Approval:	
A	11/25/15	Initial Release / GT	Final Approval:	G. Tokatli
				PAGE 1 of 2

General Cable reserves the right to modify this information without prior notification and does not make a warranty or representation of any kind, whether implied or expressed with respect to the information contained herein. General Cable assumes no risks, and will not be liable for direct or indirect, special, incidental or consequential damages, any defect or personal injury resulting from the use of this document.

**** Proposal #2 with concentric robust larger diameter****

B. Electrical & Mechanical Characteristics:



- 1.0 Conductor DCR: 11.4 Ohms/Mft Nom.
- 2.0 Capacitance (#1): 29.0 Pf/ft Nom. (Mutual)
52.0 pf/ft Nom. (Cond-Shield)
- 3.0 Impedance (#1): 53.0 Ohm Nom.
- 4.0 Shield DCR (#1): 9.50 Ohms/Mft Nom. (foil shield + drain wire)
- 5.0 Velocity of Propagation: 66% Nom
- 6.0 Temperature and Voltage Rating: -40C to +80C / 300V Max

C. Agencies Approval: UL Subject 758; AWM Style 20233 80C 300V VW-1 and CSA C22.2 No.210-05 AWM I/II A/B FT-1

D. Compliance: RoHS/CE Compliant

E. Cable Weight: 53.0 Lbs./Kft Nom.

DRAFT

REV	DATE	CHANGE DETAIL			General Cable 20 Forge Park, Franklin, Ma 02038 Phone: 508-541-7100 Fax: 508-541-8122	
		ref. NACCO P/N: TBD -RD3609-5	Title:		ZO20C0071897A**	
			Description:		3/Prs. 20 AWG + 1/C 20 AWG Special Application Mast Cable	
			Drawn By:	gt		
B	01/14/16	Revise dwg and color code- gt	Mktg Approval:			
A	11/25/15	Initial Release / GT	Final Approval:		PAGE 2 of 2	

General Cable reserves the right to modify this information without prior notification and does not make a warranty or representation of any kind, whether implied or expressed with respect to the information contained herein. General Cable assumes no risks, and will not be liable for direct or indirect, special, incidental or consequential damages, any defect or personal injury resulting from the use of this document.